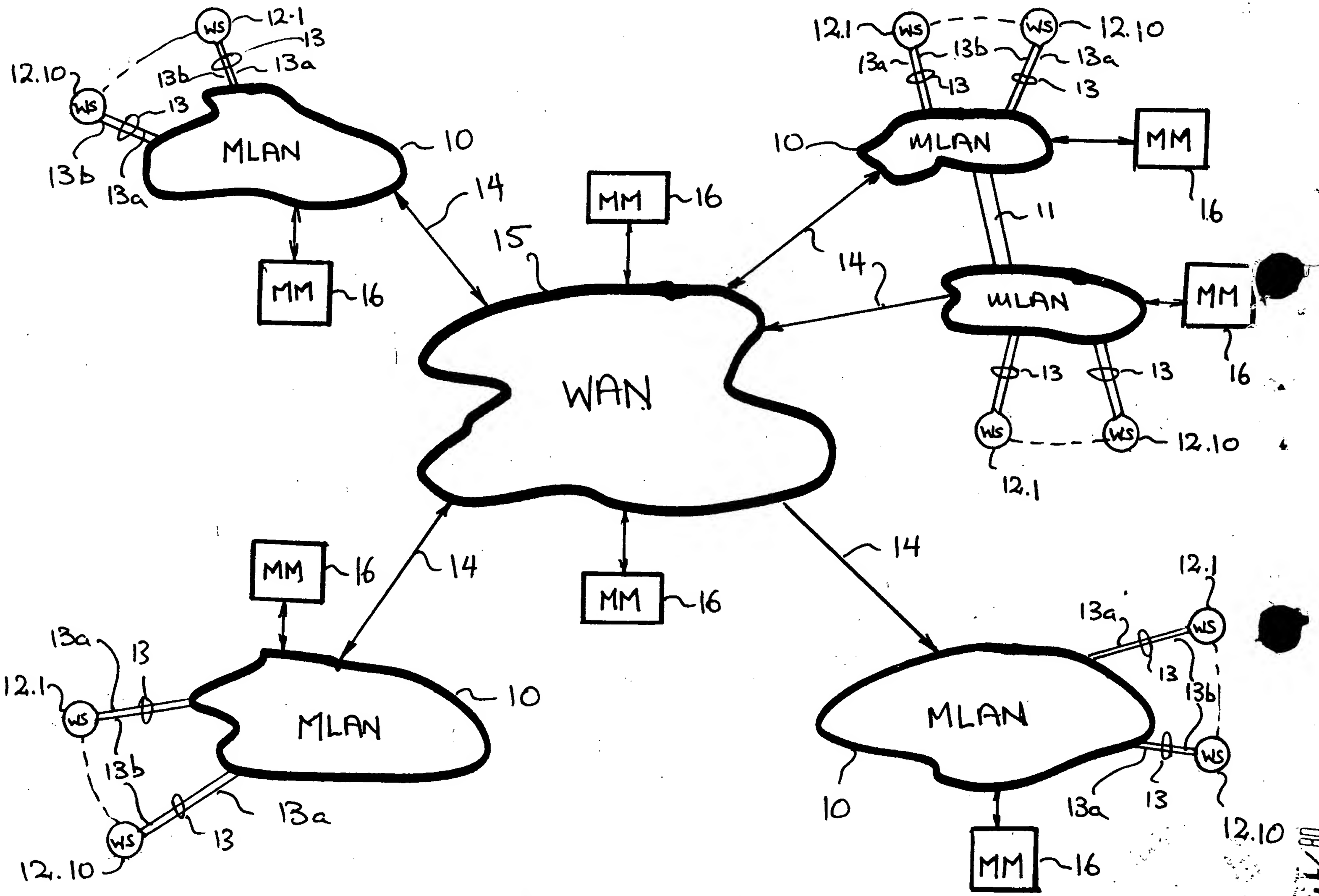


FIGURE 1

08/717523

Edit

Hangup | Hold | Mute | Leave Word | Share | Whiteboard | Adjourn

Calls on Hold:

Resume | Bob Lake

Resume |

Resume |

New Call

Call from Daniel I. Applebaum

Accept | Refuse | Add

Tom Greer

File Edit Permission

Search by: By Name and Company

List of 3 matched entries:

Erv's (copy)

ESSC Gary Bennett

Grumman Systems Support Corpor

Highland Digital

Milan Technology Corp. (copy)

List of 1 selected entries:

Grumman Systems Support Corporati

Call | Add | Mail

Share | Whiteboard | Details

Detail - Grumman Systems Support Corporation (copy)

Edit

Name:	Grumman Systems Support Corporation (copy)
Work Phone:	800 876 9130
Home Phone:	
Company:	
Work Address:	5627 Stoneridge Drive, Suite 310 Pleasanton, CA 94588
Home Address:	
Remarks:	Sun maintenance
Date Updated:	Mon Sep 28 14:00:32 1992

Video Phone

File Edit Options Help

Greer | Lauwers | Lentz | Ludwig | Lutz

Van Note | Steel | Kheloa | Vassar | Kennedy

Call | Add | Mail | Share | Whiteboard | Messages | Telephone

Fig. 2A

FIGURE 2A

08/191,693

Xerox - Browser (demo-master:./In Box)

File View Options Folders Messages Search Help

Current Folder: /In Box | 10 messages, 9 unread | Compose

File to: Other Folder | Reply: Author | Trash | Read Unread

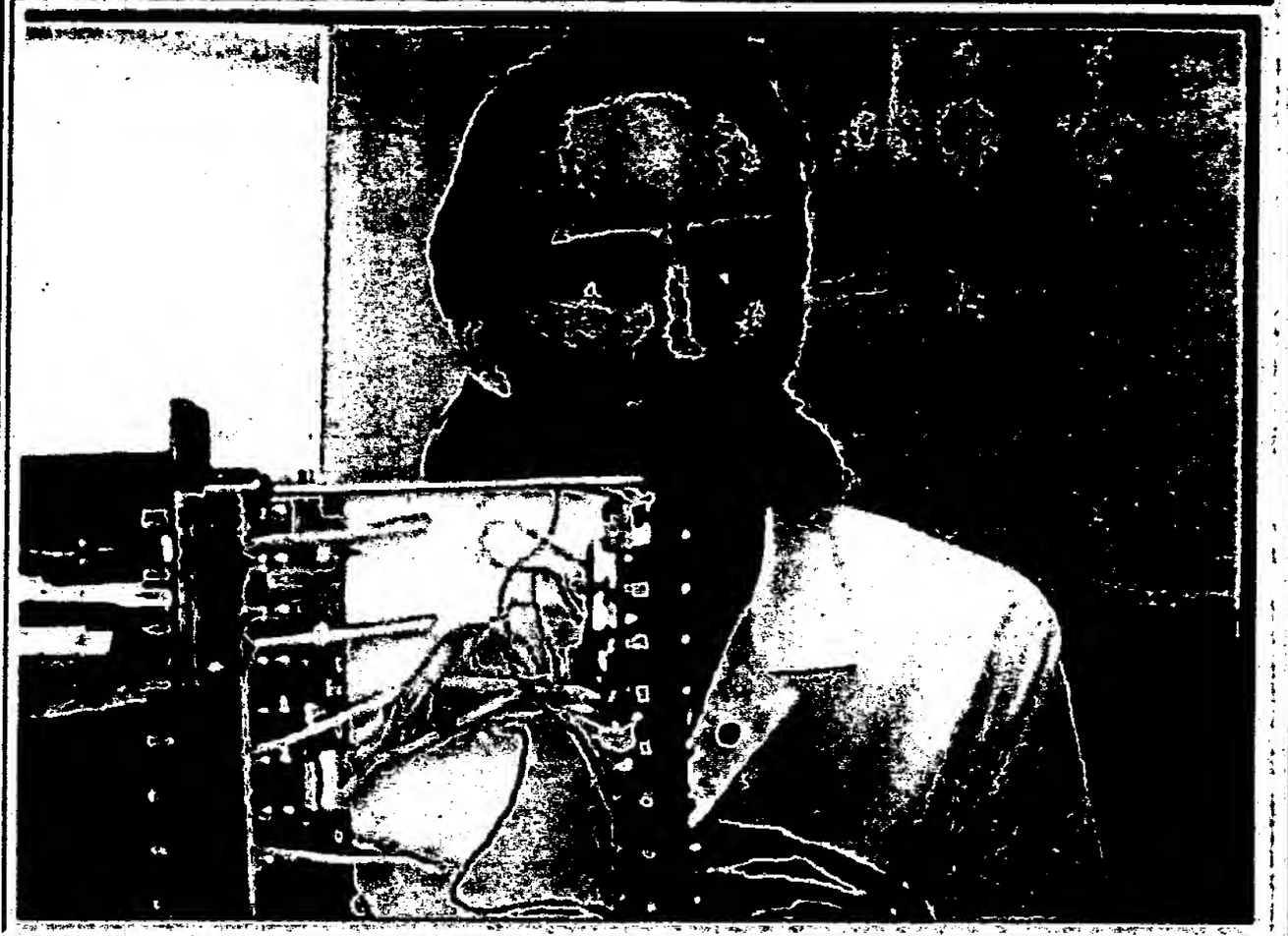
U	lauwers	Dec-91	<No Subject>
U	lauwers	Dec-91	final report
U	Lester Ludwig	May-92	meteor measurement tool
U	Daniel I. Applebaum	Aug-92	World Income Fund: New Possibilities
U	Keith Lantz	26-Oct	ACME and Palme-Hebber
U	Demo Meister	18-Dec	100,000 bushels of Oil at 15-25 premium
U	Jennifer Steel	02-Feb	Apologies
U	Murray Demo	24-May	European FX Fluctuations
U	Mark Van Nate	10-Aug	Variable Life Insurance
U	Jennifer Steel	20-Aug	Atherton selection

Subject: meteor measurement tool
From: Lester Ludwig <lfl>
Date: Tue May 19 18:51:36 1992
To: lauwers
Reply-To: demo-meister

Vicor Video Enclosure
(Press Right Mouse Button for Options)

VideoFileSystem: /usr/spool/dfaf/tmp/OM.1243.7

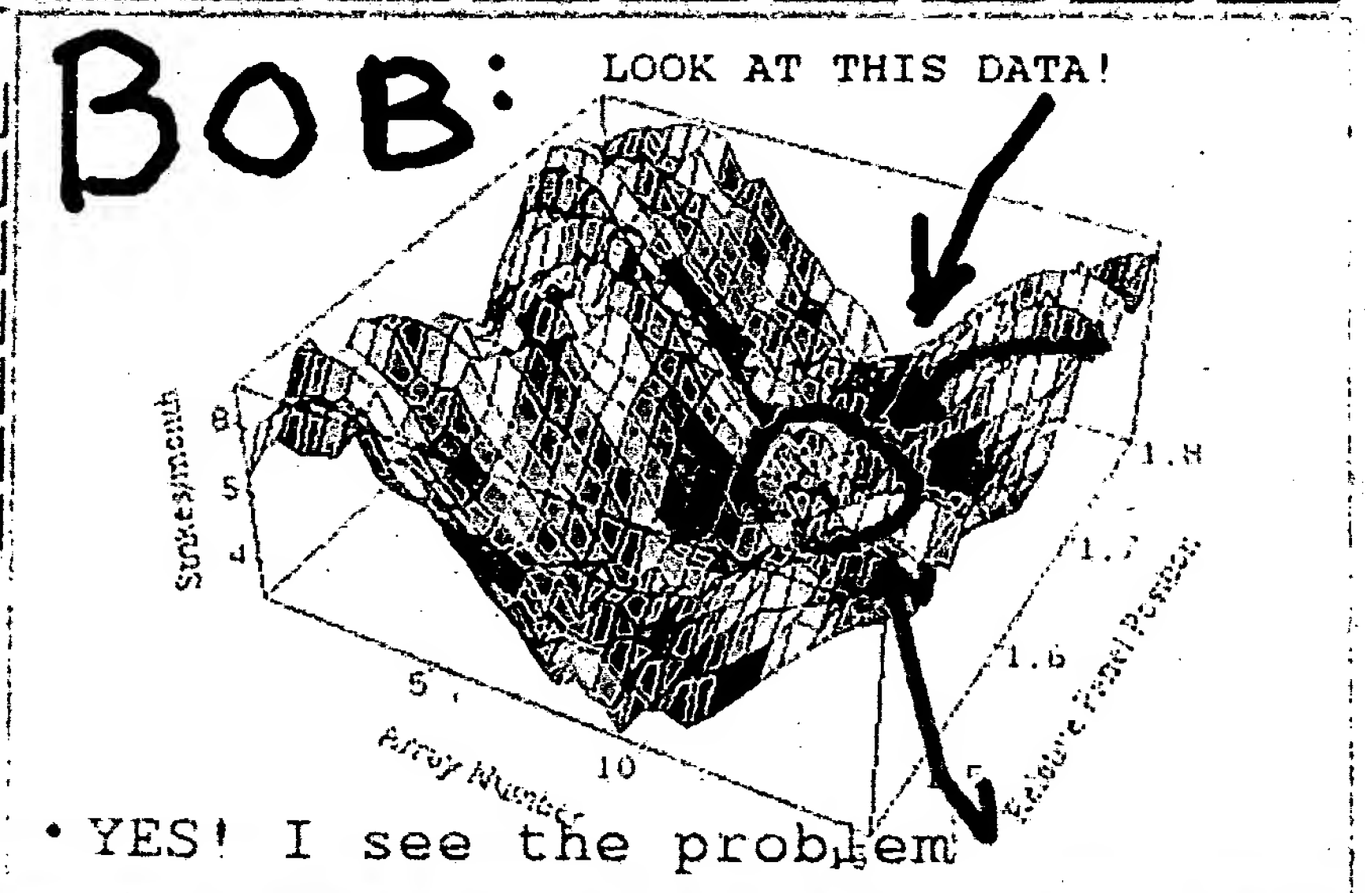
File Edit



Rewind | Size: 0:54 min. | Pause

Share: stdin

Add | Save | Load | Print | Text | Clear | Grab | Regrab | Quit



Tom Griner
Rob Lake

Video Phone

FIGURE 2B

08/131523

08/131523

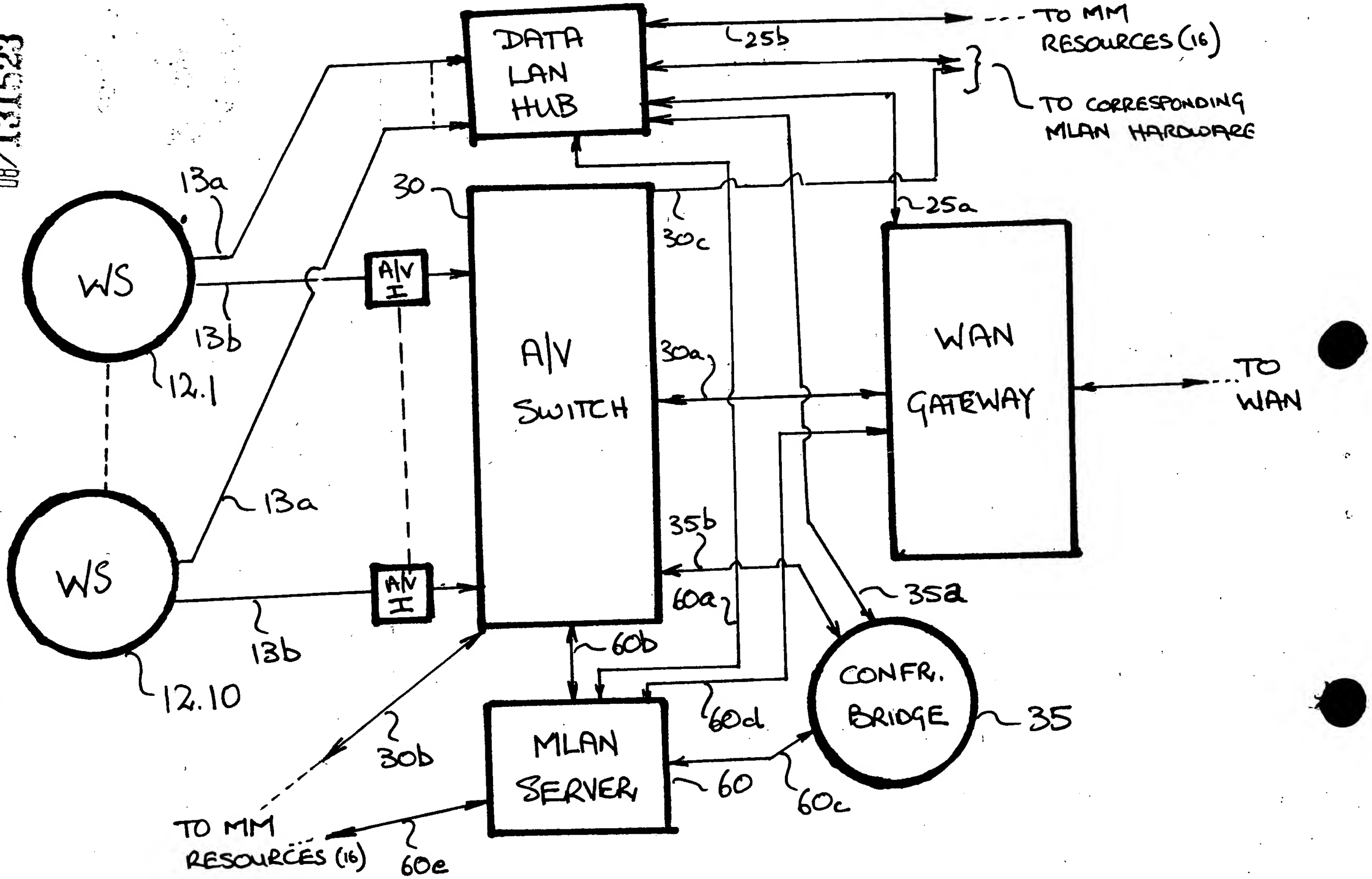


FIGURE 3

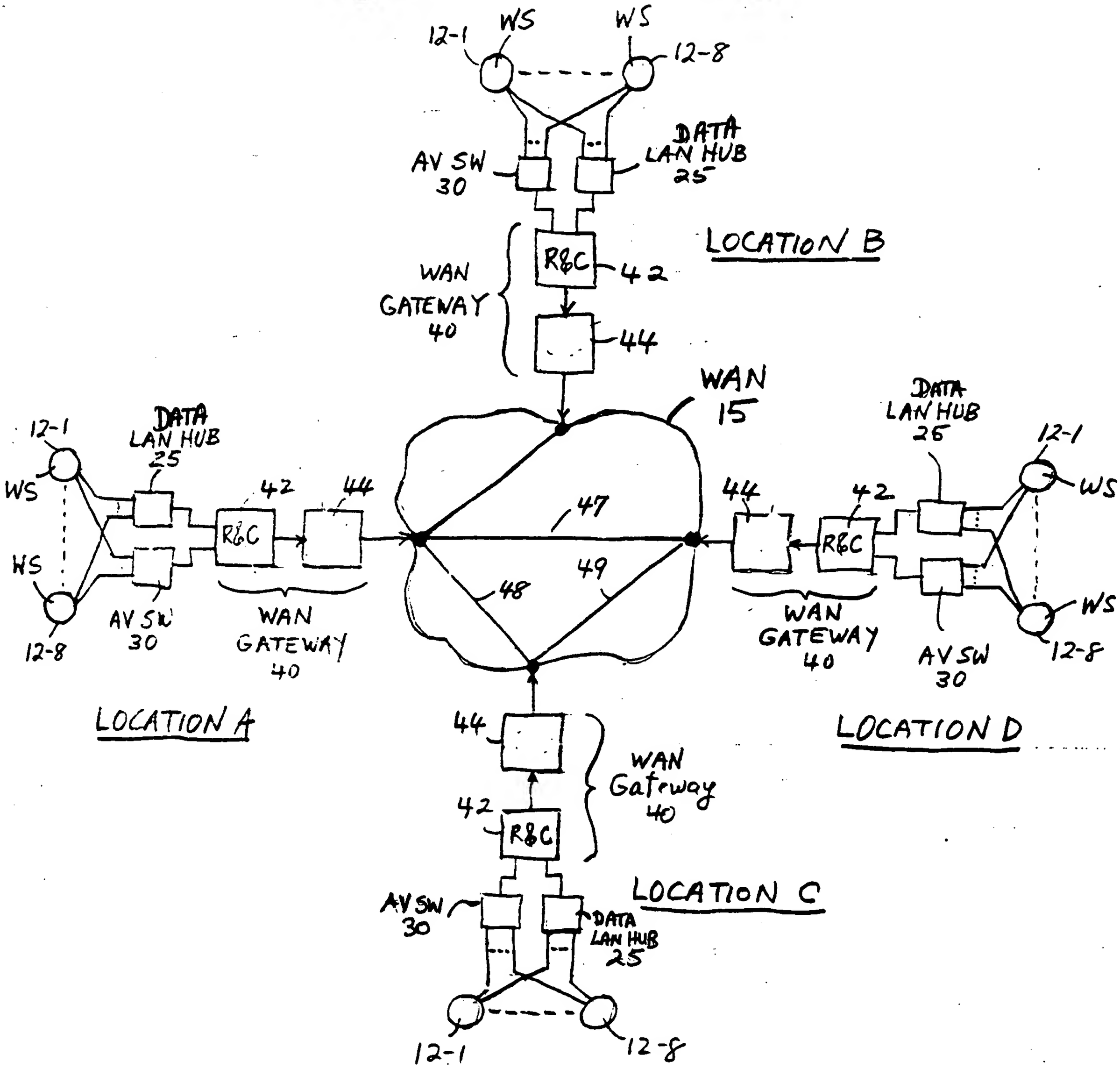

12-1
WS
WS
12-8
DATA LAN HUB 25
AV SW 30
LOCATION B
R&C
42
WAN GATEWAY 40
44
WAN 15
DATA LAN HUB 25
12-1
WS
WS
12-8
AV SW 30
WAN GATEWAY 40
47
48
49
44
42
R&C
DATA LAN HUB 26
12-1
WS
WS
12-8
AV SW 30
LOCATION A
LOCATION D
44
42
R&C
WAN Gateway 40
AV SW 30
DATA LAN HUB 25
LOCATION C
12-1
12-8

Fig. 4

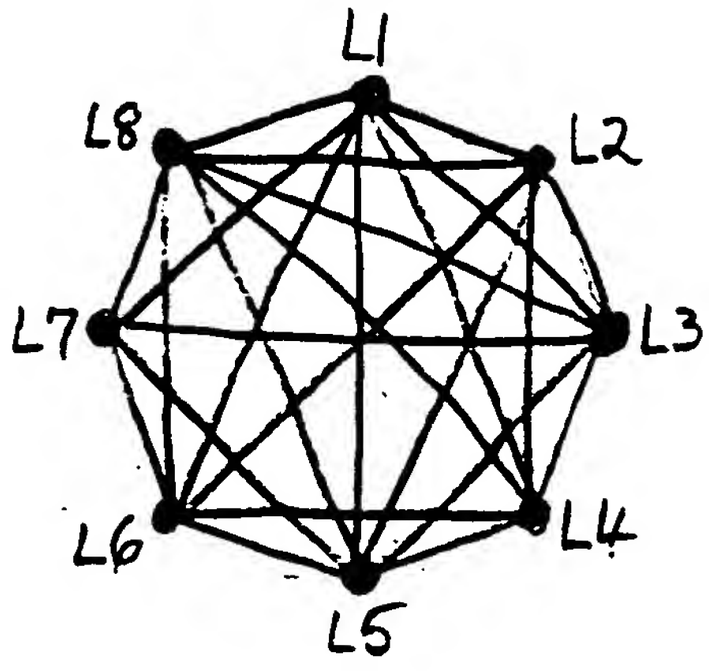


FIG. 5

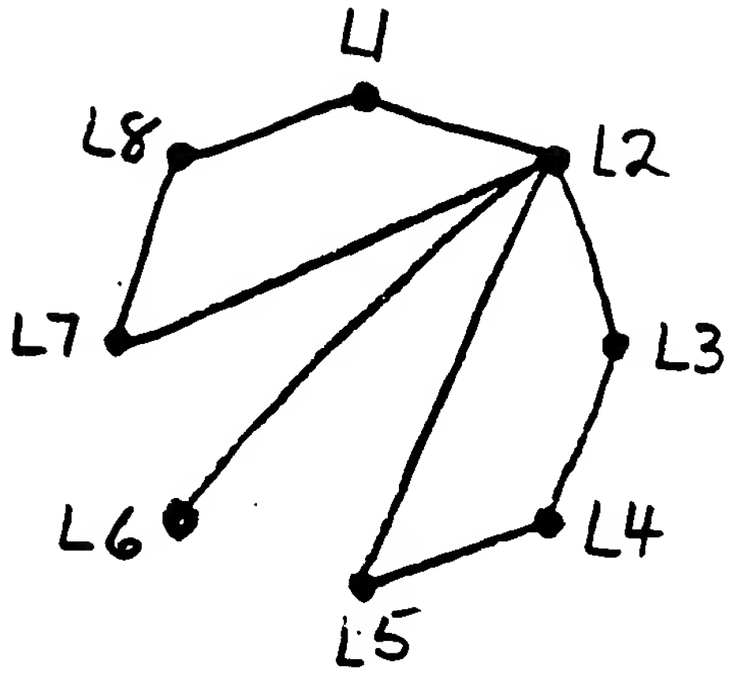


FIG. 6

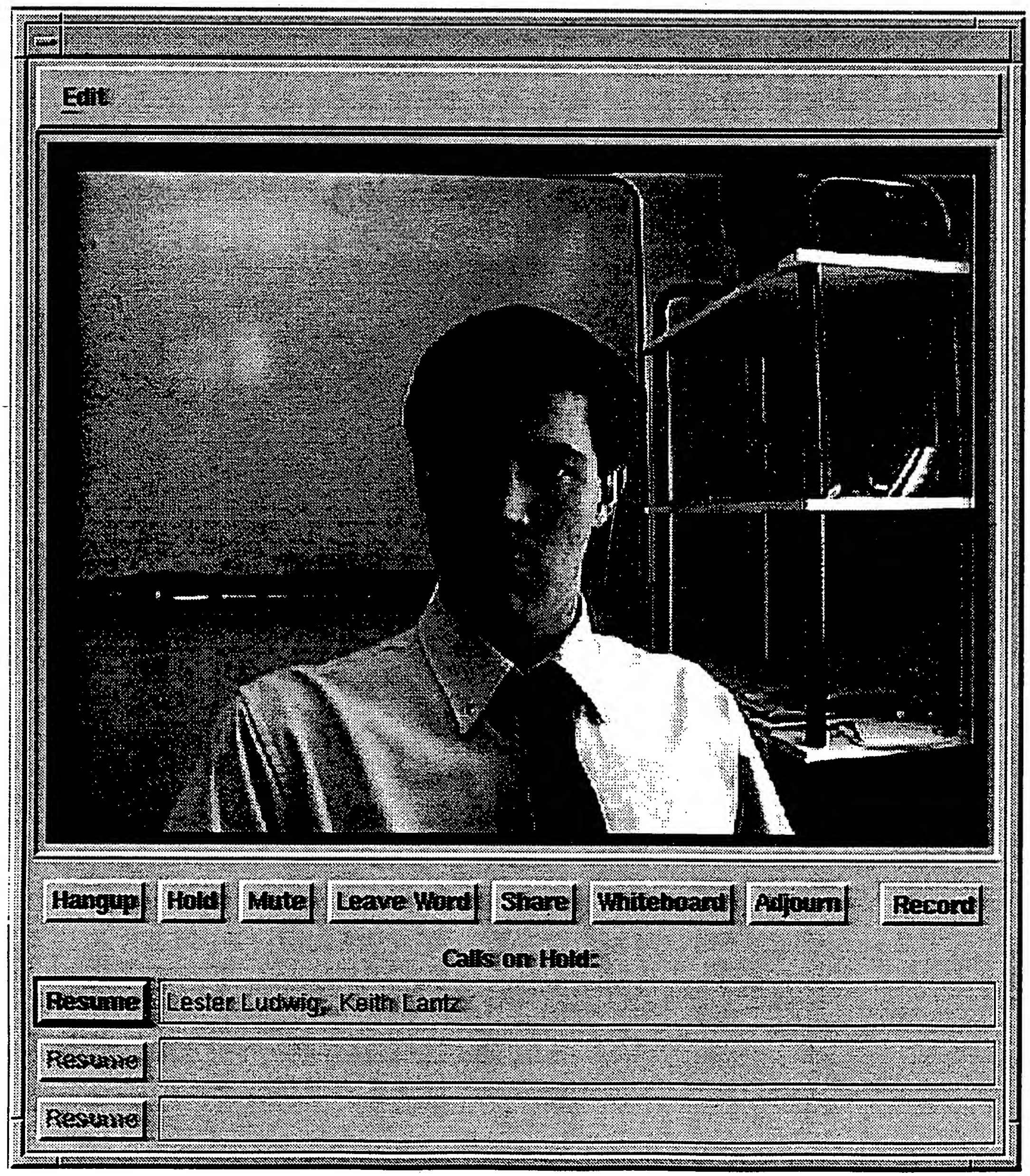


Fig 8A

08/131523

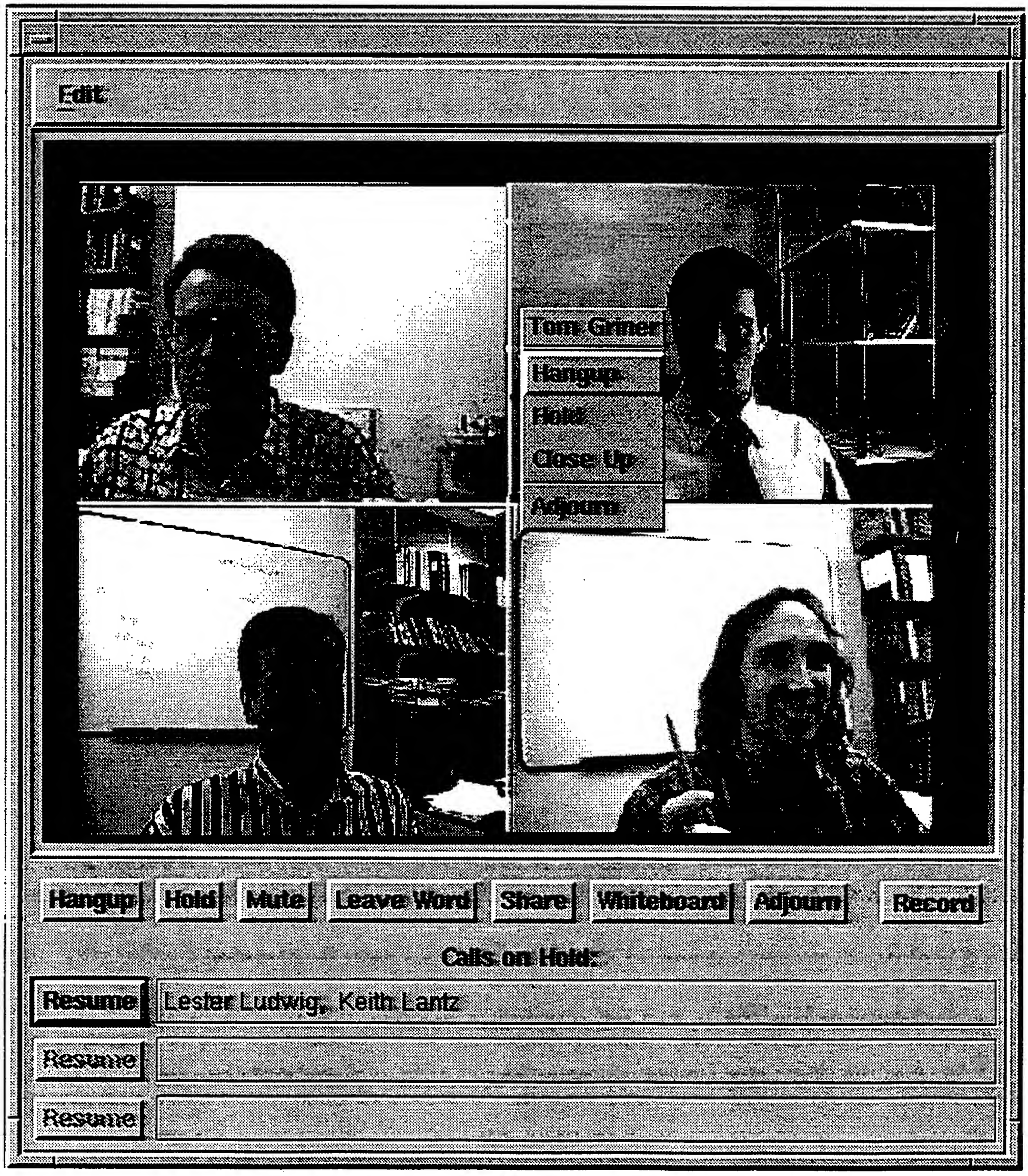

Edit
Tom Griner
Hangup
Hold
Close Up
Adjourn
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Adjourn
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Lantz
Resume
Resume

Fig 8B

Edit

Hangup | Hold | Mute | Leave Word | Share | Whiteboard | Record

Calls on Hold:

Resume | Lester Ludwig, Keith Lantz

Resume

Resume

Shell

TEC

maker | wingz | Calculator | pBx

VCR | Rolodex | VideoPhone | VPhone-test

Editor | Print | ColorPrint | SunPC

> scree

In Box

Collaboration Initiator

File Edit Options Help

Griner | Lauvers | Lantz | Ludwig | Lake

Van Nole | Steel | Kindon | Venner | Kennedy

Call | Add | Mail | Share | Whiteboard | Messages | Telephone

FIG 8C

08/131523

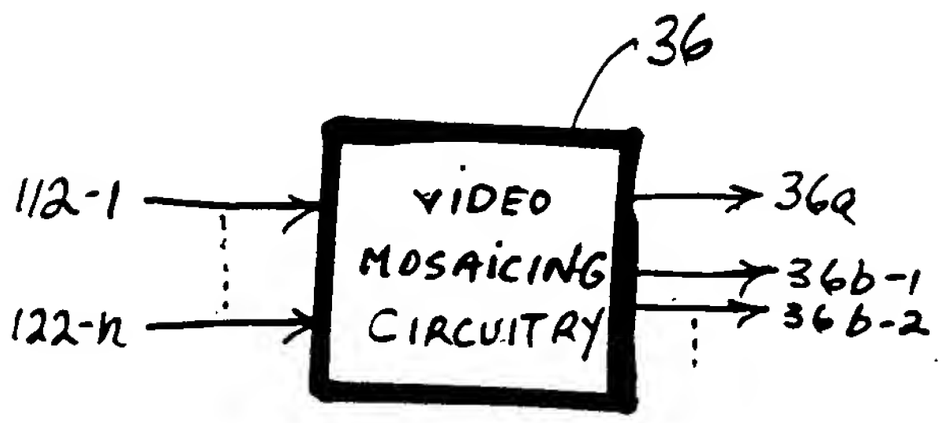


FIG. 7

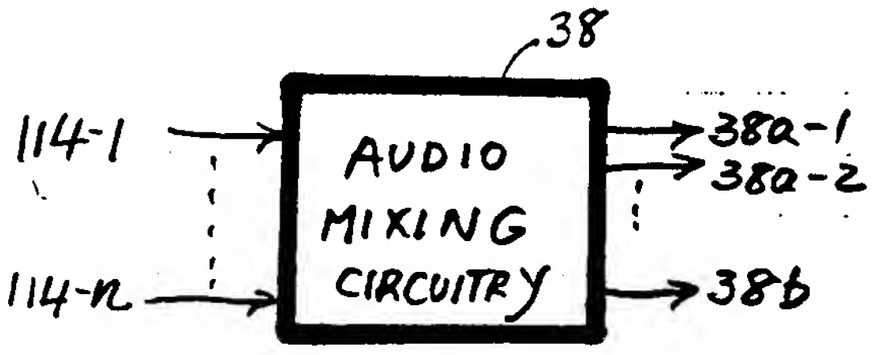


FIG. 9

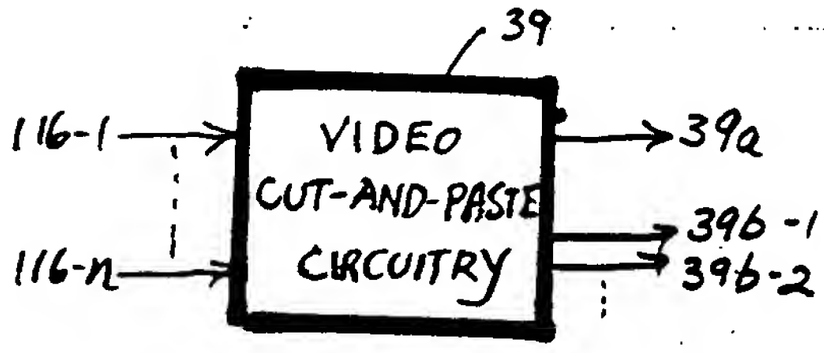


FIG. 10

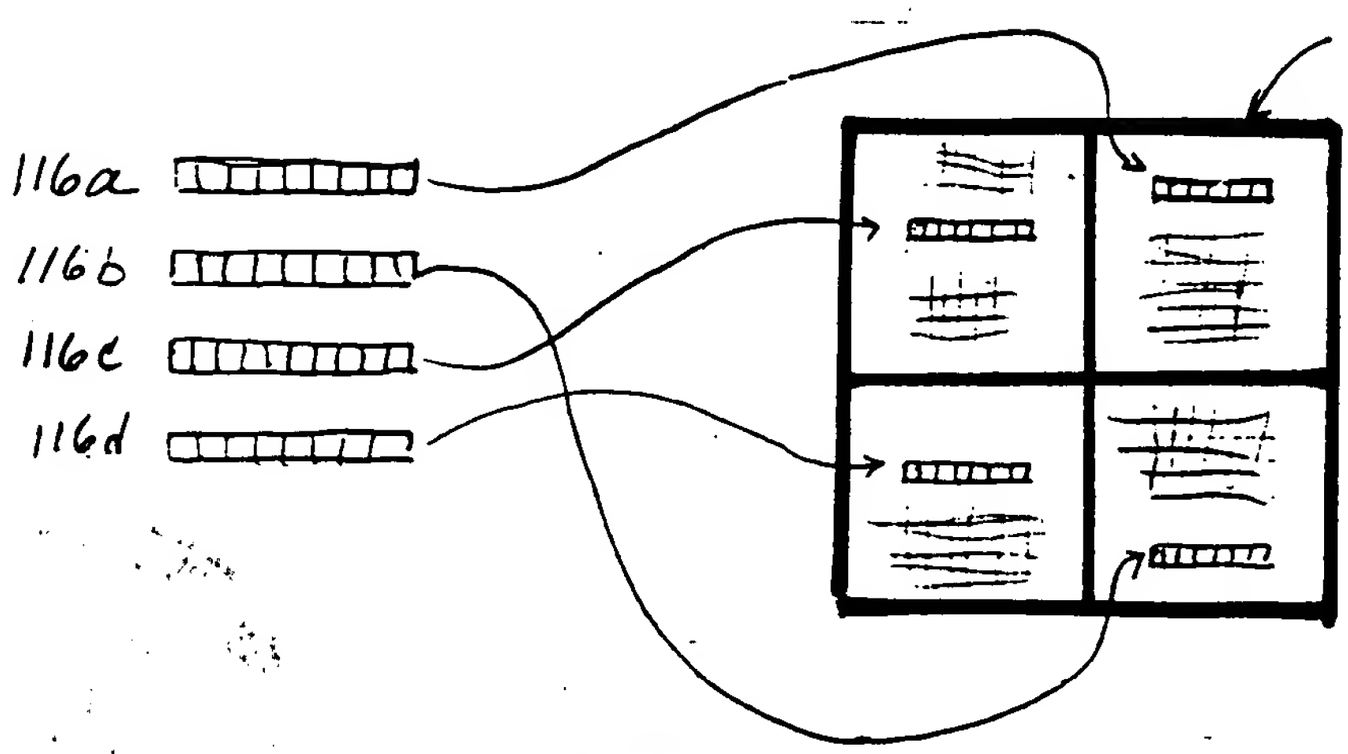


FIG. 11

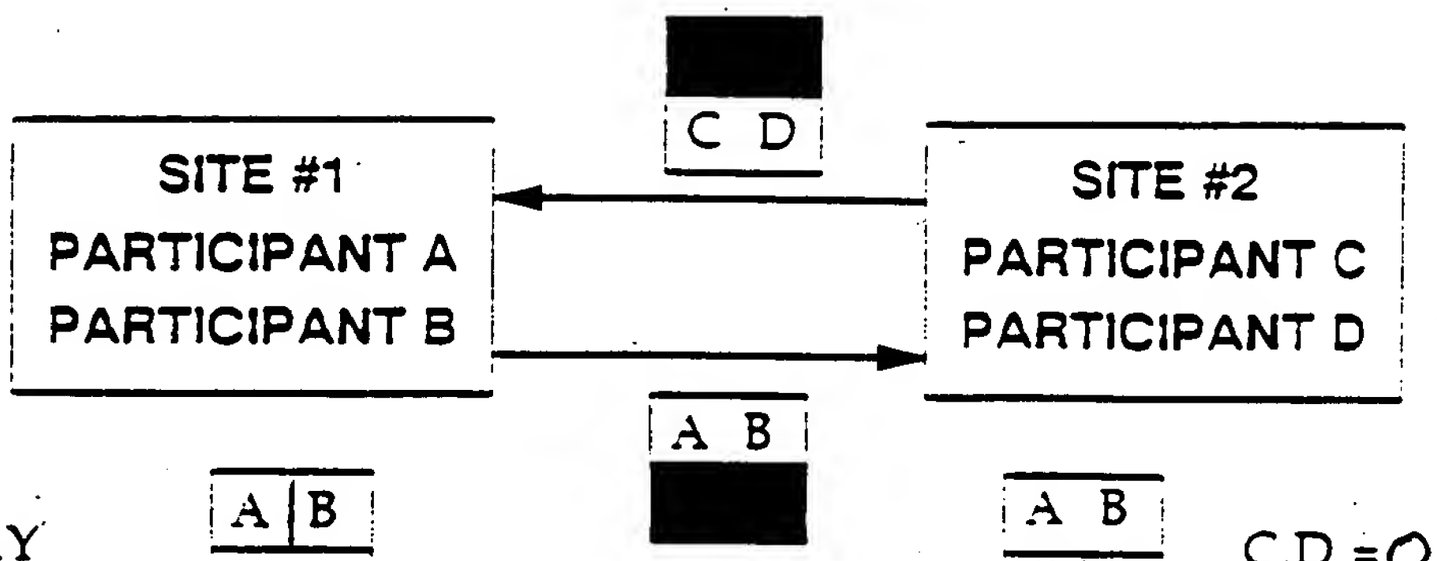
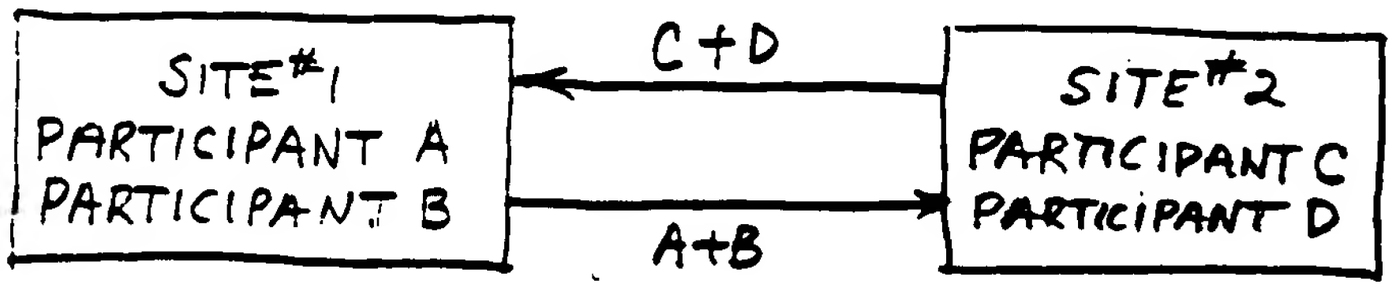


FIGURE 12A



A hears B + C + D
B hears A + C + D

A,B = 0 UNIT DELAY
C,D = 1 UNIT DELAY

C hears A + B + D
D hears A + B + C

C,D = 0 UNIT DELAY
A,B = 1 UNIT DELAY

FIGURE 12B

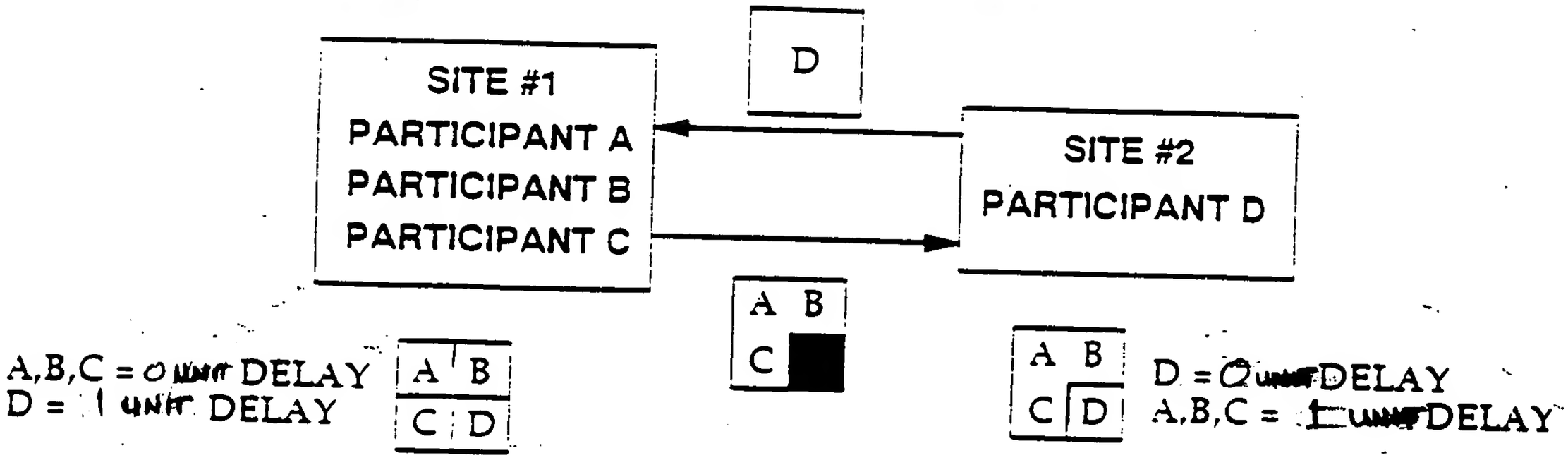


FIGURE 13A

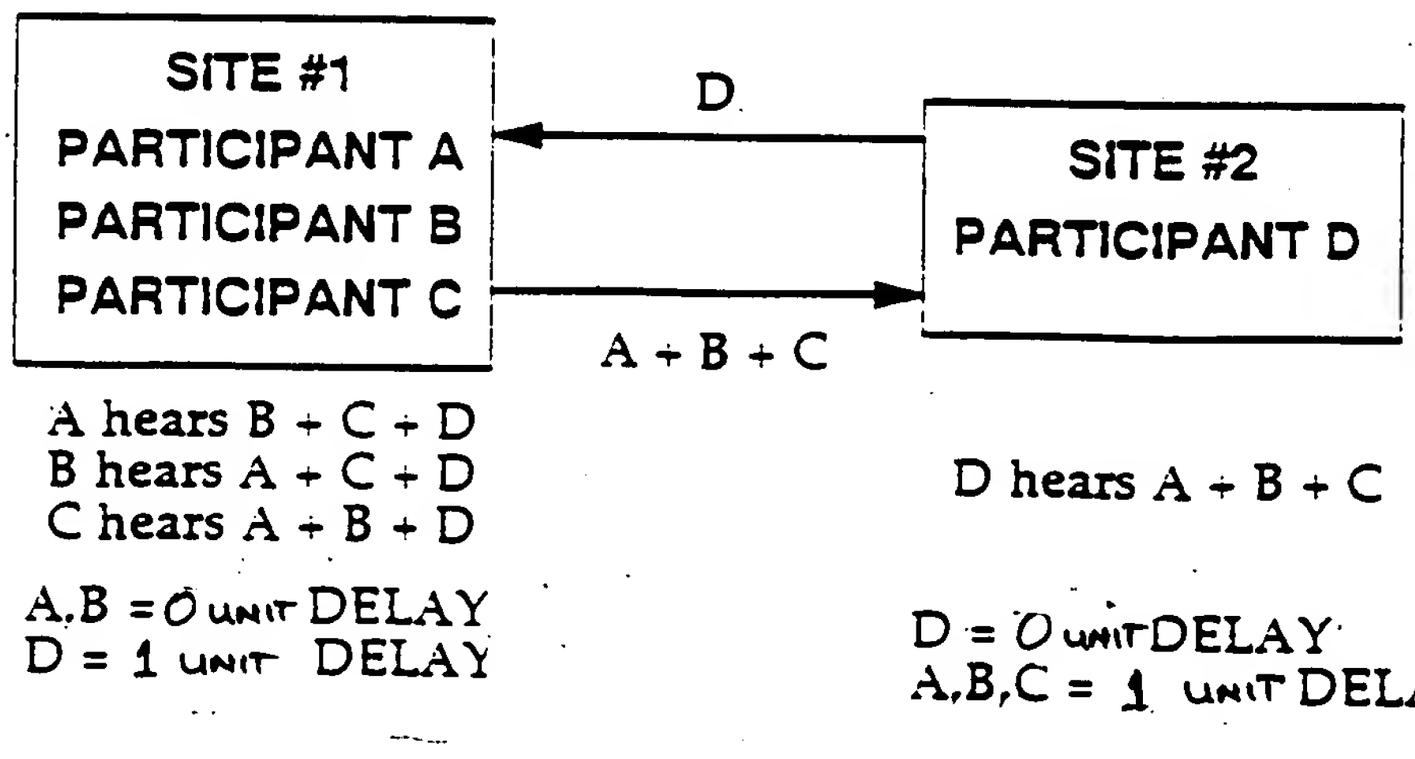
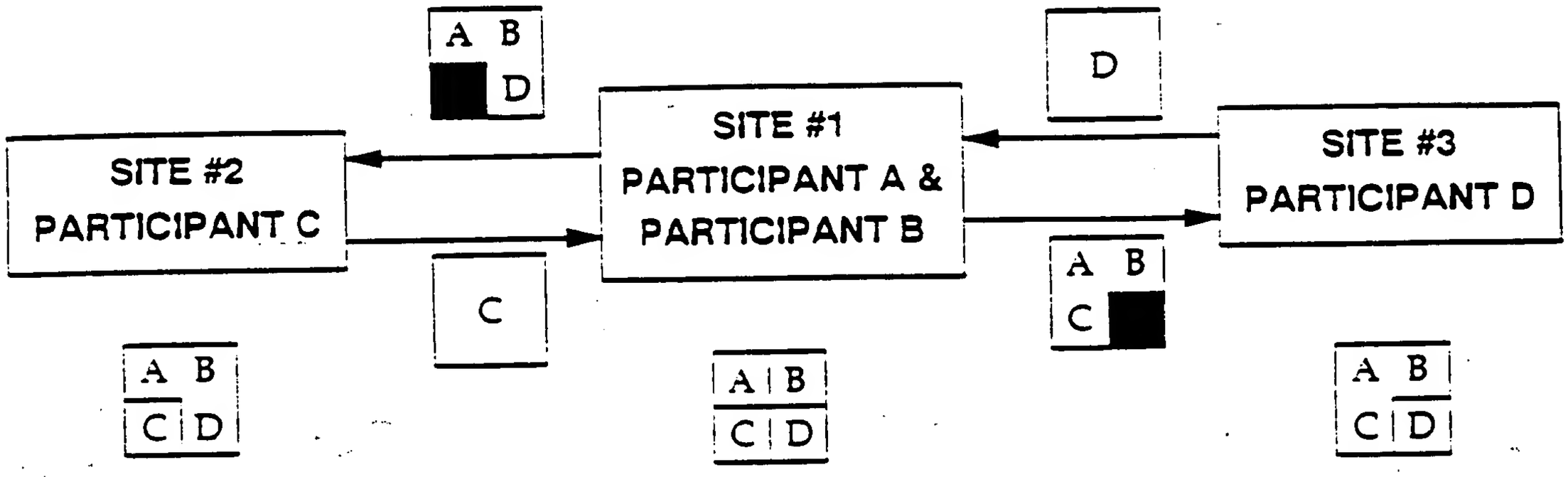


FIGURE 13B

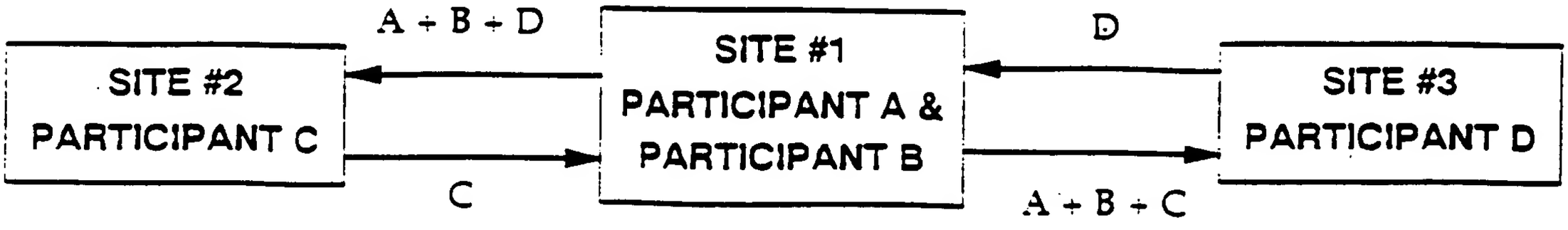


C = 0 UNIT DELAY
A,B = 1 UNIT DELAY
D = 2 UNITS DELAY

A,B = 0 UNIT DELAY
C,D = 1 UNIT DELAY

D = 0 UNIT DELAY
A,B = 1 UNIT DELAY
C = 2 UNITS DELAY

FIGURE 14A



C hears A + B + D

C = 0 UNIT DELAY
A,B = 1 UNIT DELAY
D = 2 UNIT DELAY

A hears B + C + D
B hears A + C + D

A,B = 0 UNIT DELAY
C,D = 1 UNITS DELAY

D hears A + B + C

D = 0 UNIT DELAY
A,B = 1 UNIT DELAY
C = 2 UNITS DELAY

FIGURE 14B

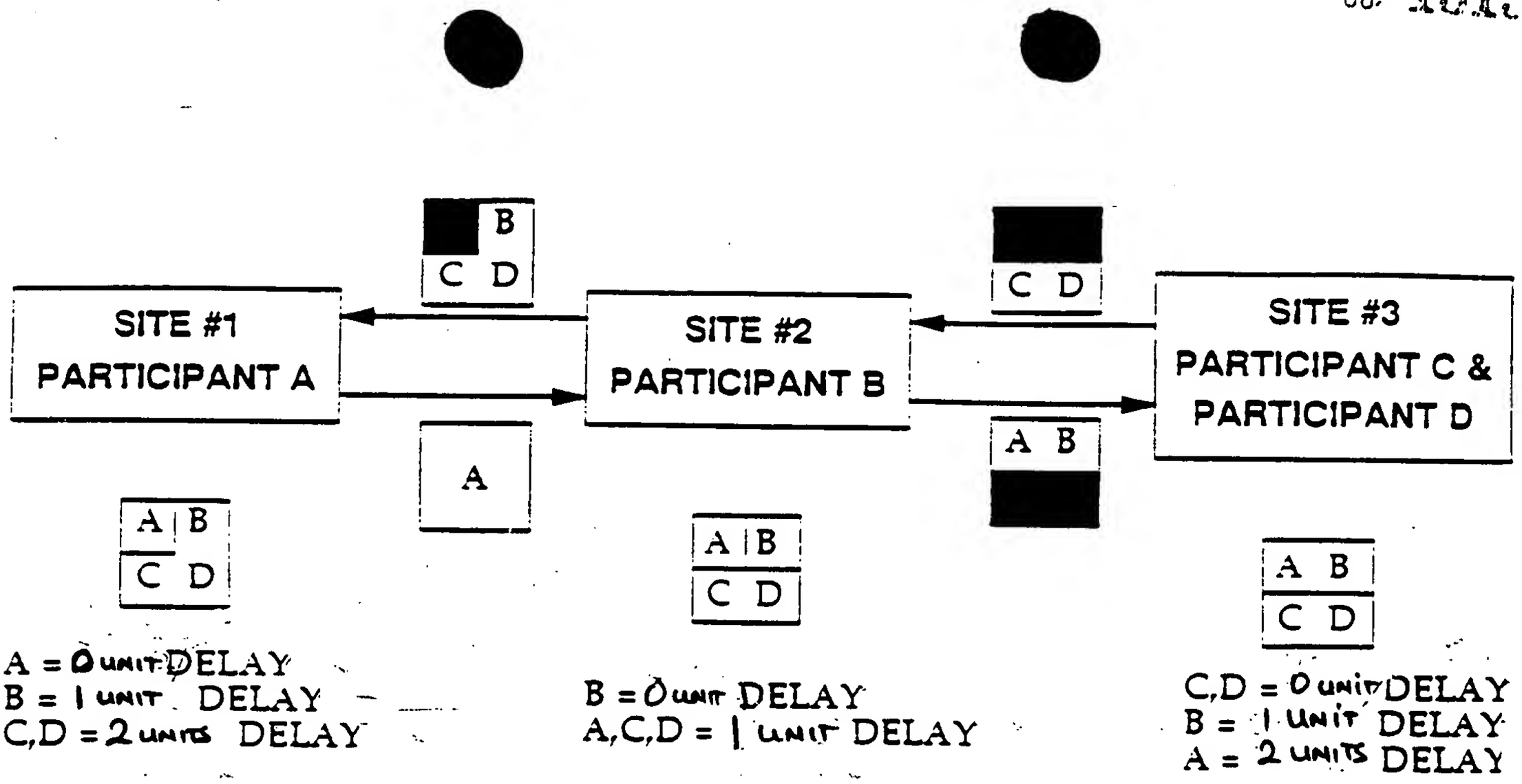


FIGURE 15A

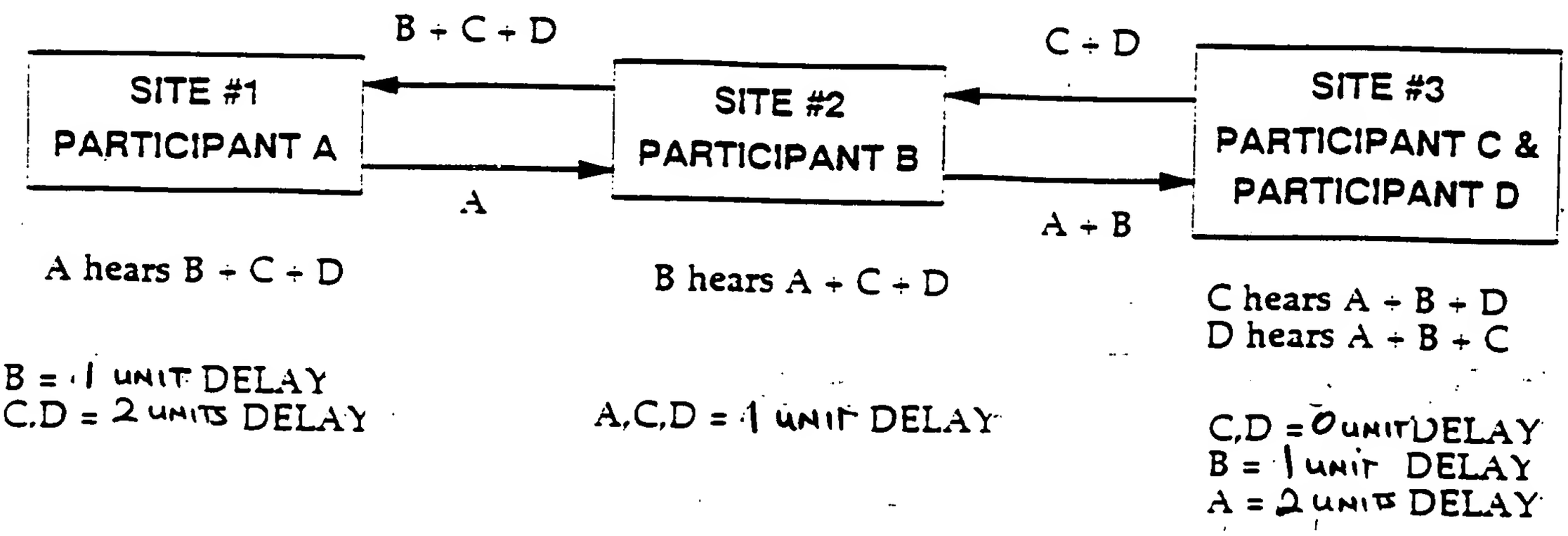


FIGURE 15B

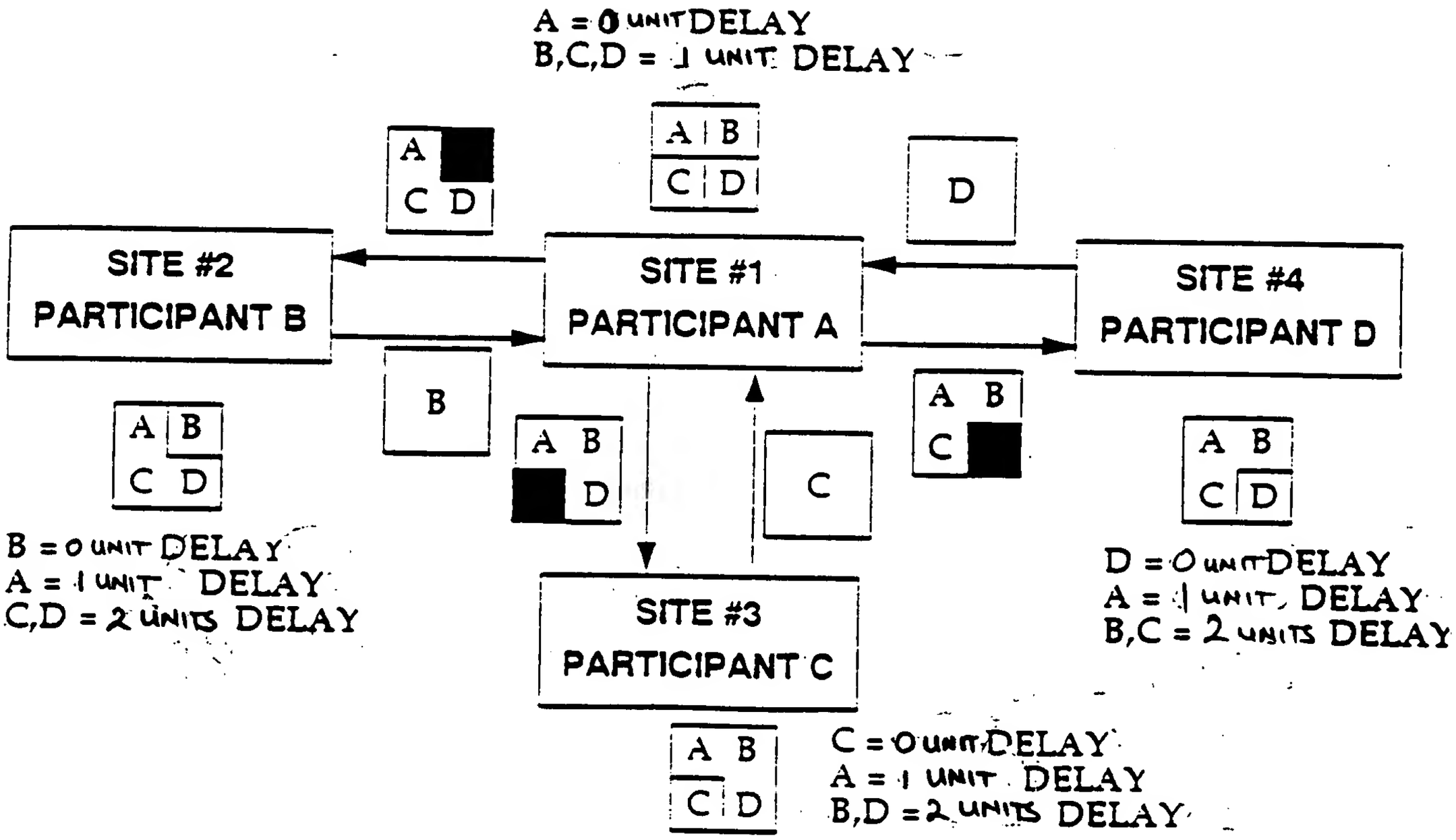

A = 0 UNIT DELAY
B,C,D = 1 UNIT DELAY
SITE #2
PARTICIPANT B
SITE #1
PARTICIPANT A
SITE #4
PARTICIPANT D
SITE #3
PARTICIPANT C
B = 0 UNIT DELAY
A = 1 UNIT DELAY
C,D = 2 UNITS DELAY
D = 0 UNIT DELAY
A = 1 UNIT DELAY
B,C = 2 UNITS DELAY
C = 0 UNIT DELAY
A = 1 UNIT DELAY
B,D = 2 UNITS DELAY

FIGURE 16

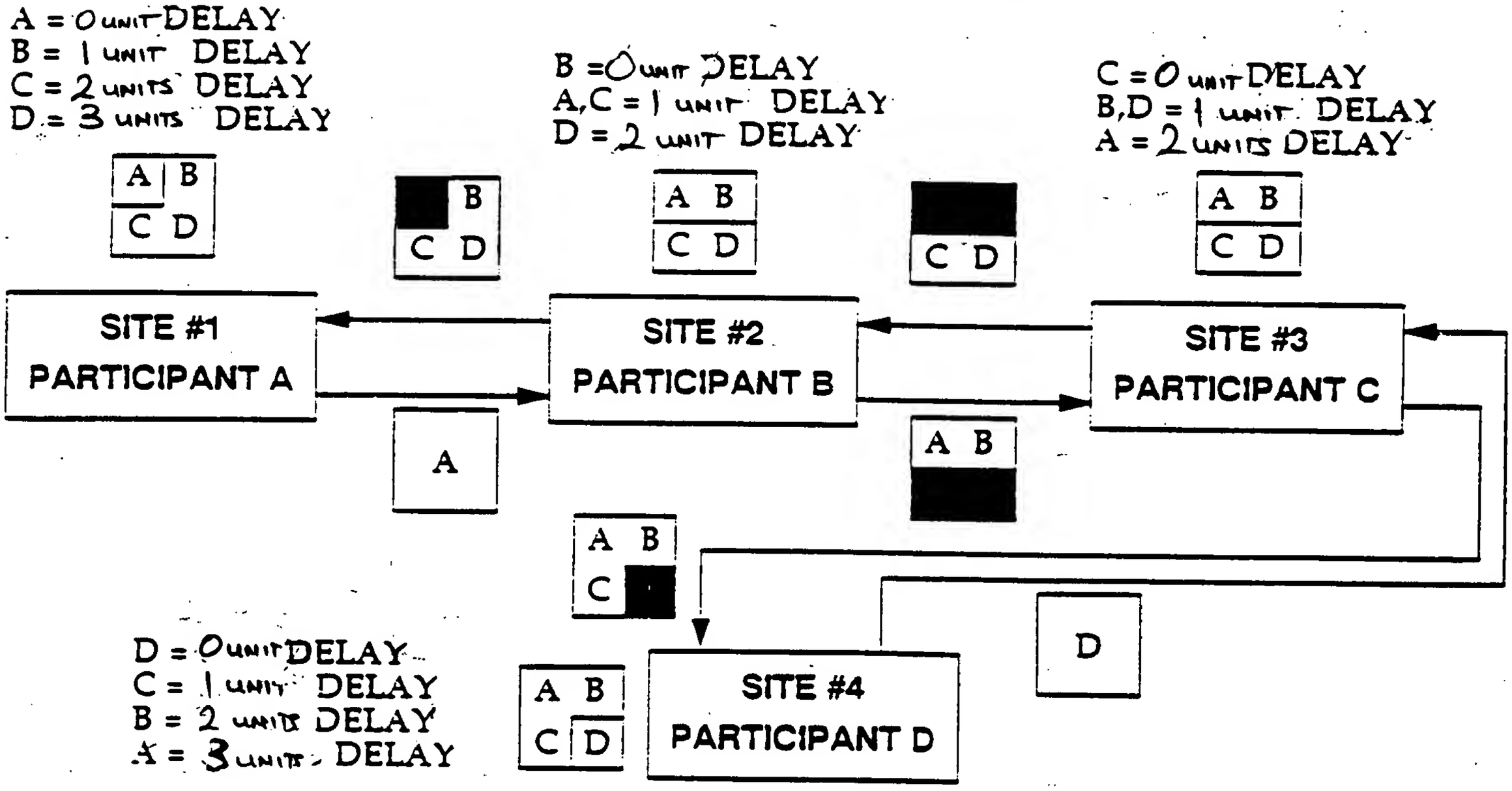


FIGURE 17A

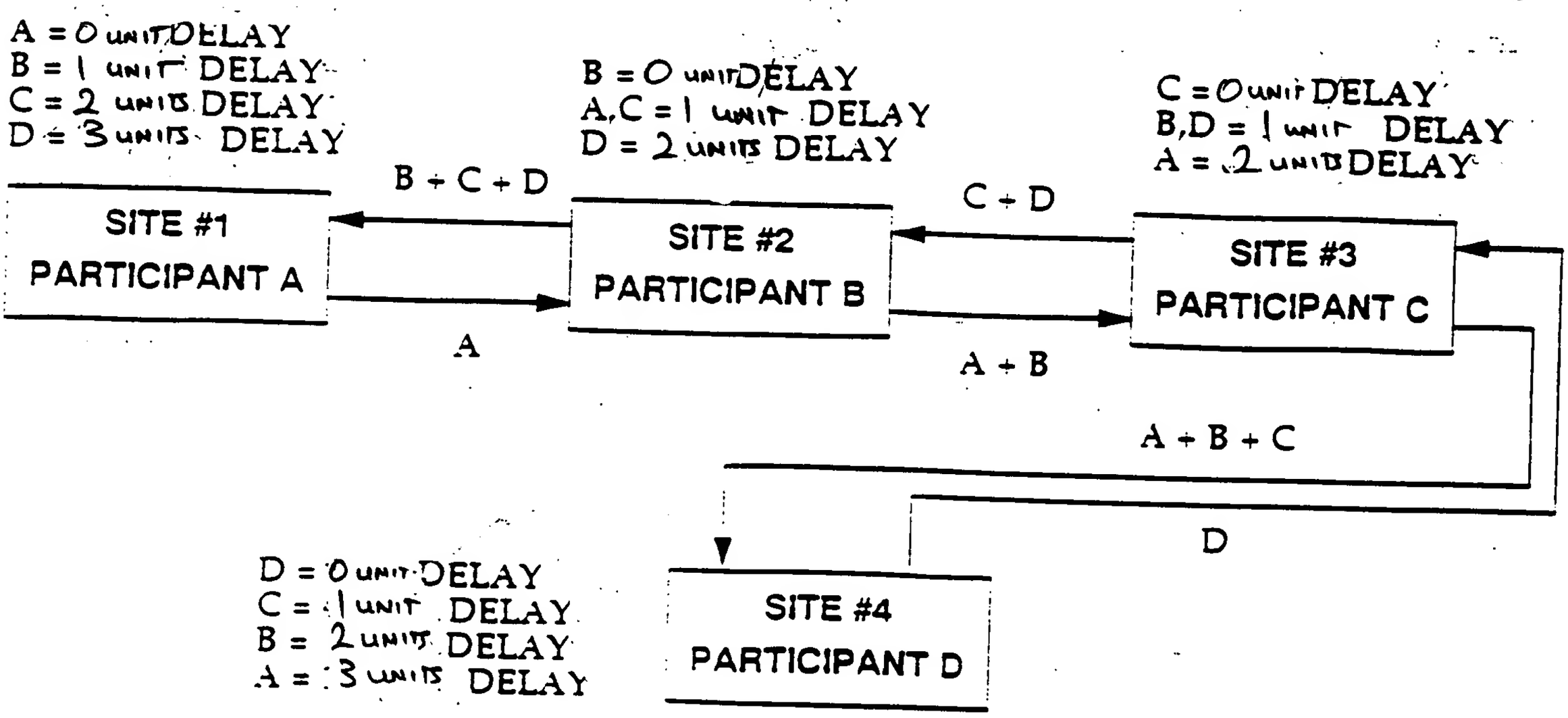


FIGURE 17B

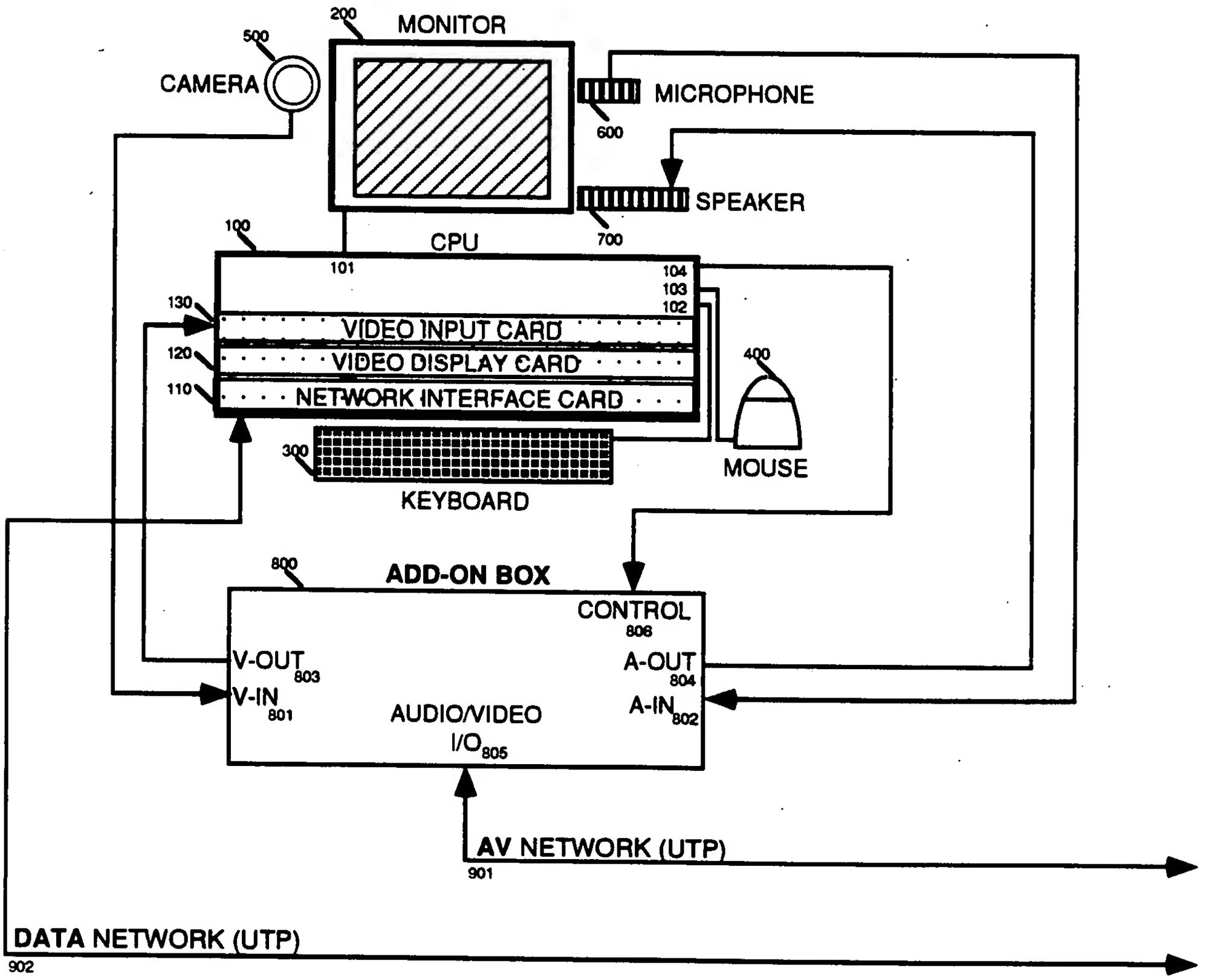

200
MONITOR
500
CAMERA
MICROPHONE
600
SPEAKER
700
100
CPU
101
104
103
102
130
VIDEO INPUT CARD
120
VIDEO DISPLAY CARD
110
NETWORK INTERFACE CARD
400
300
MOUSE
KEYBOARD
800
ADD-ON BOX
CONTROL
806
V-OUT
803
A-OUT
804
V-IN
801
AUDIO/VIDEO
I/O
805
A-IN
802
AV NETWORK (UTP)
901
DATA NETWORK (UTP)
902

Fig. 18A

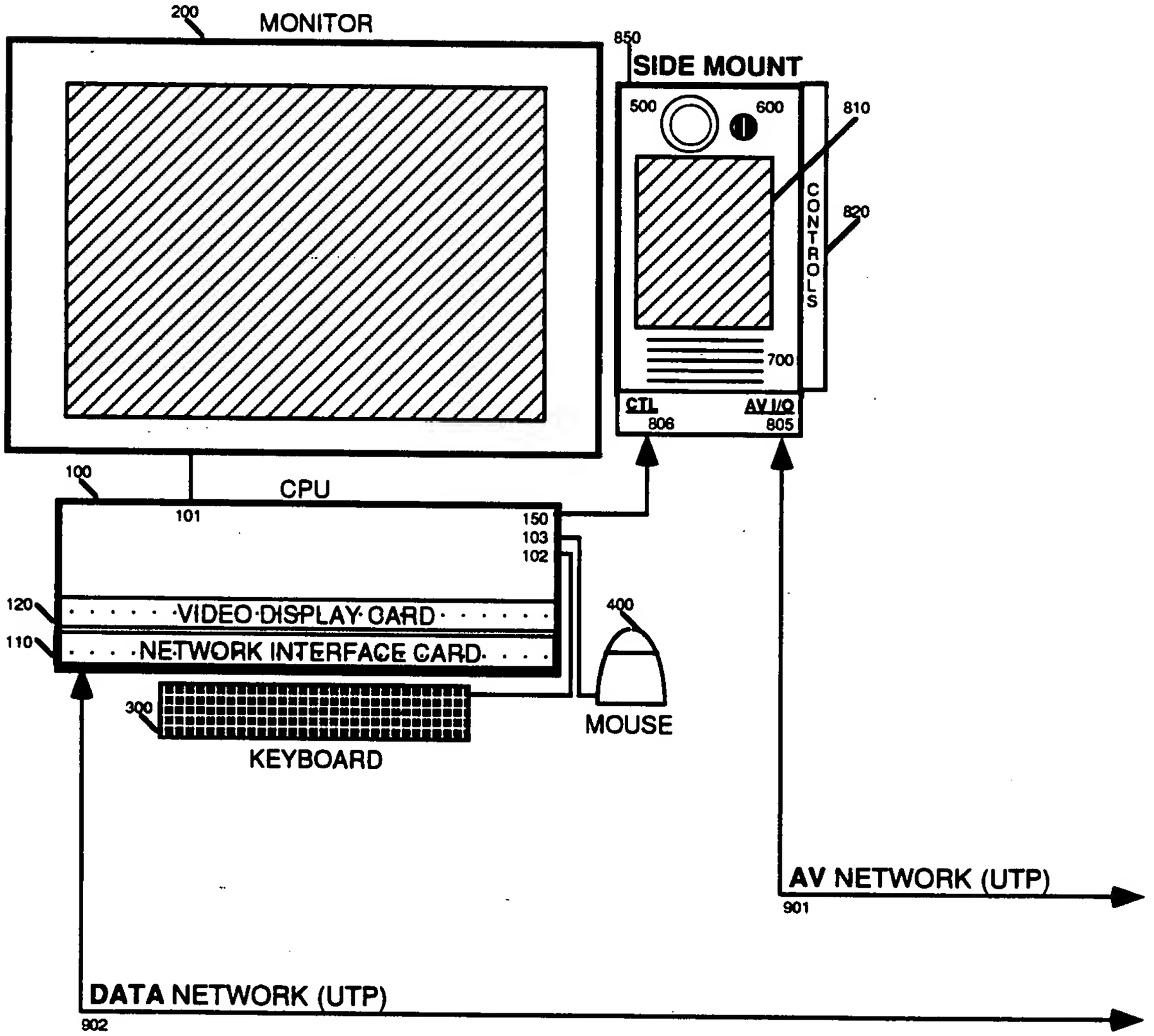

200
MONITOR
850
SIDE MOUNT
500
600
810
820
CONTROLS
700
CTL
806
AV I/O
805
100
CPU
101
150
103
102
120
VIDEO DISPLAY CARD
110
NETWORK INTERFACE CARD
400
300
KEYBOARD
MOUSE
AV NETWORK (UTP)
901
DATA NETWORK (UTP)
902

Fig. 18B

ADD-ON BOX

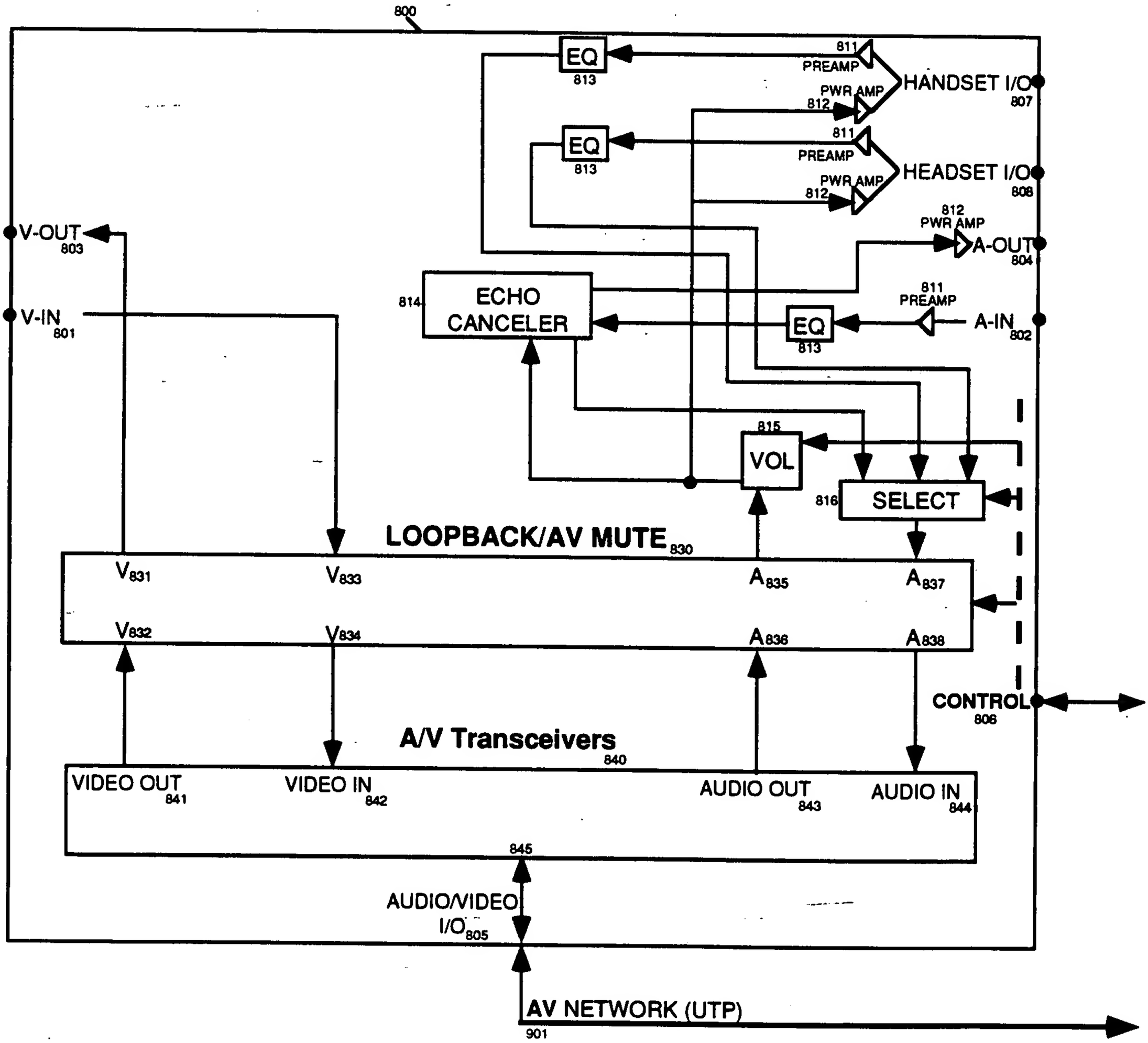


Fig. 19

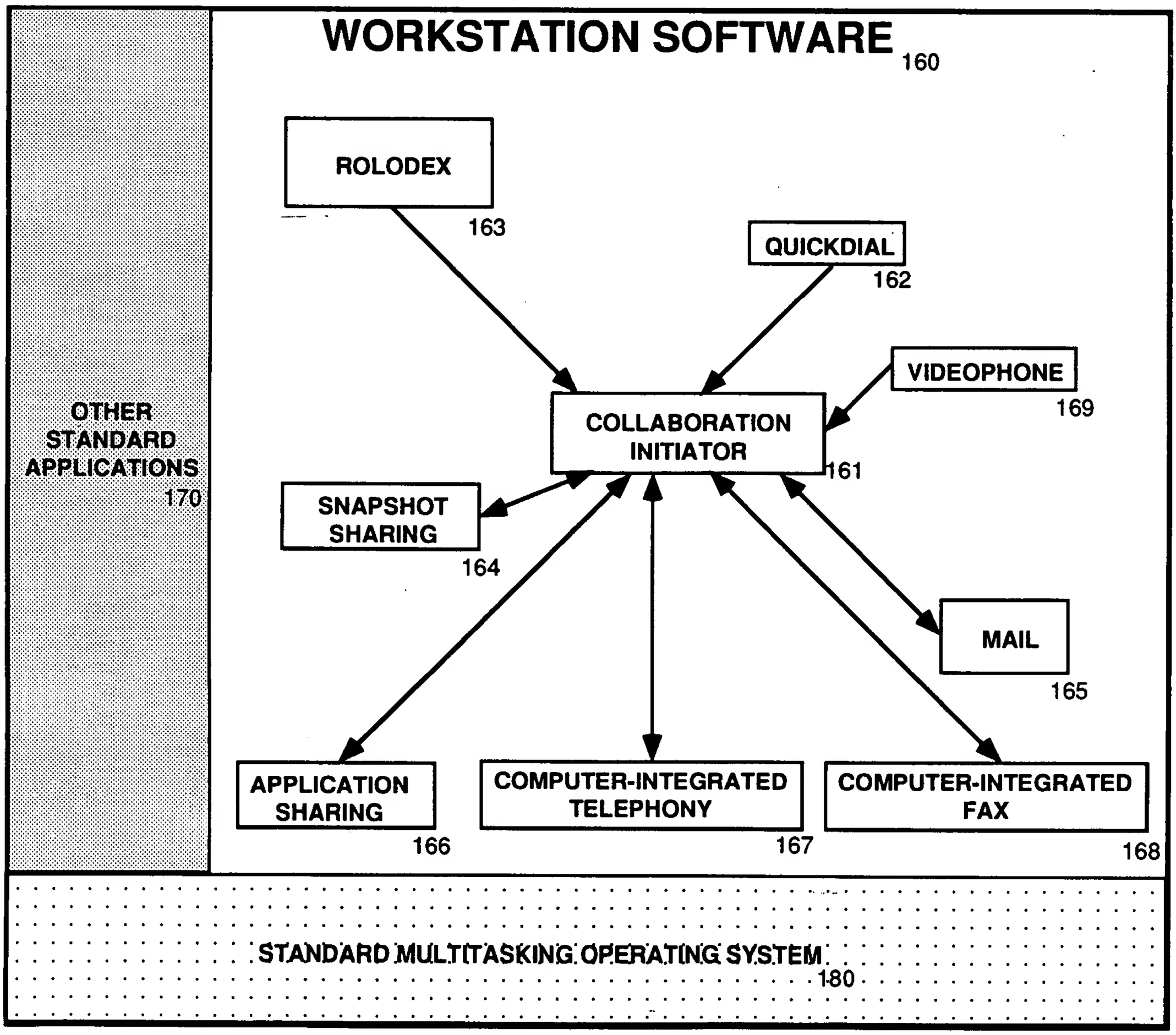

WORKSTATION SOFTWARE
160
ROLODEX
163
QUICKDIAL
162
VIDEOPHONE
169
COLLABORATION INITIATOR
161
SNAPSHOT SHARING
164
MAIL
165
APPLICATION SHARING
166
COMPUTER-INTEGRATED TELEPHONY
167
COMPUTER-INTEGRATED FAX
168
OTHER STANDARD APPLICATIONS
170
STANDARD MULTITASKING OPERATING SYSTEM
180

Fig. 20

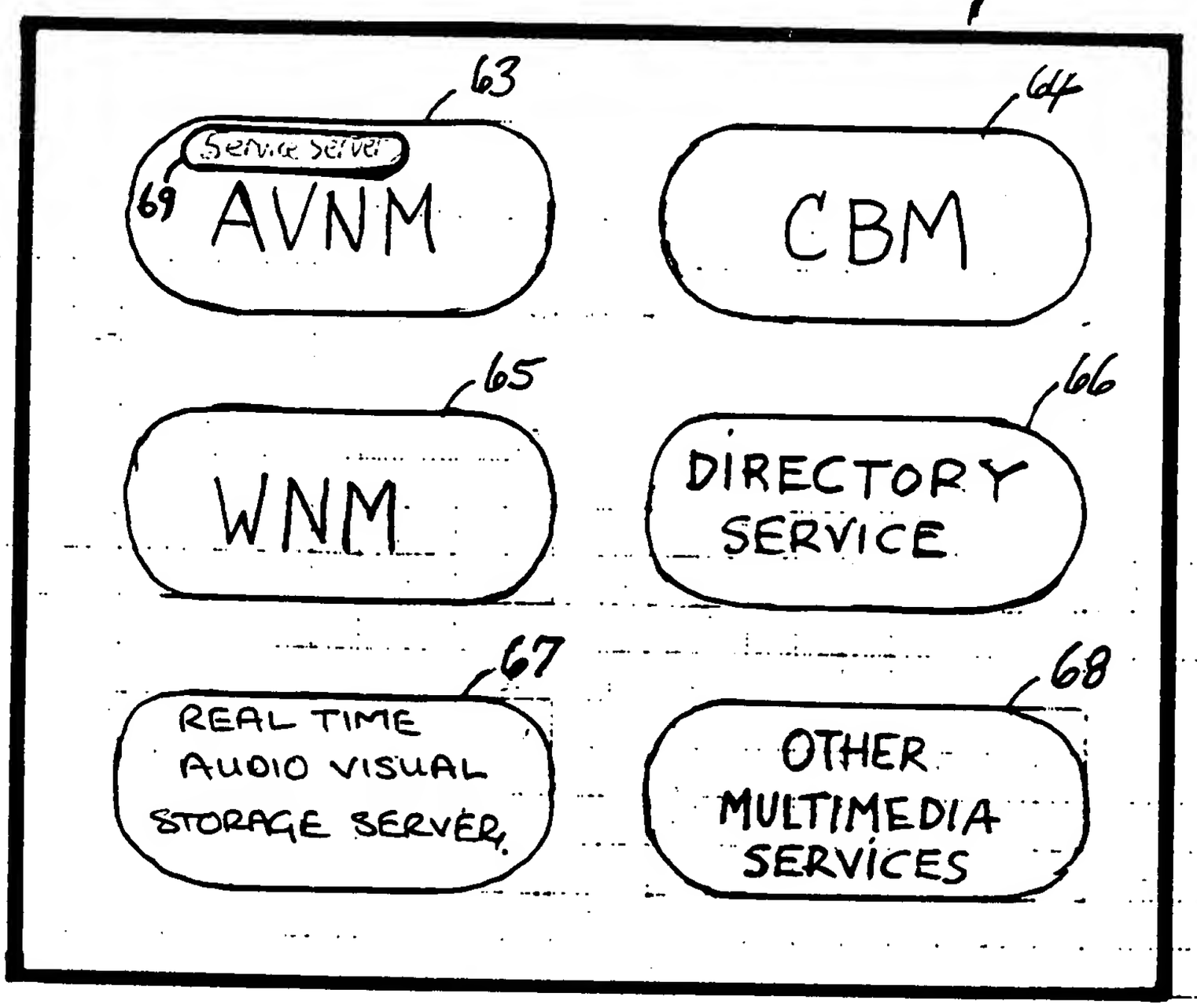

MLAN SERVER
SOFTWARE MODULES
62
63
Service Server
69
AVNM
64
CBM
65
WNM
66
DIRECTORY
SERVICE
67
REAL TIME
AUDIO VISUAL
STORAGE SERVER
68
OTHER
MULTIMEDIA
SERVICES

FIG. 21

Collaboration Initiator

File Edit Options Help

Griner

Lauwers

Lantz

Ludwig

Lake

Van Note

Steel

Kindon

Venner

Kennedy

D-Meister

Burns

Burnett

Applebaum

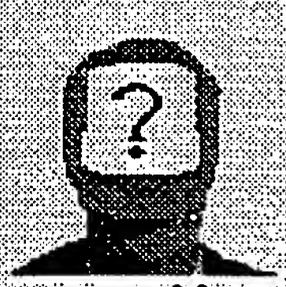
Sager

Kelvirtis

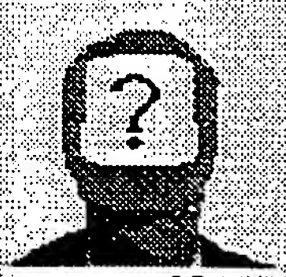
Clark

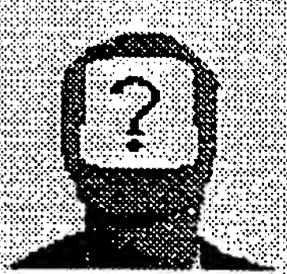
McNamara

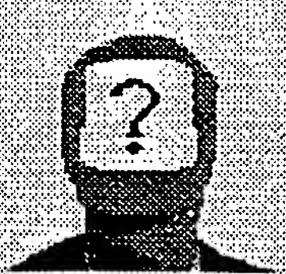
Vic

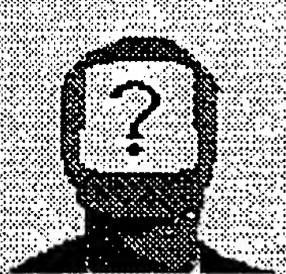

guest1

guest2

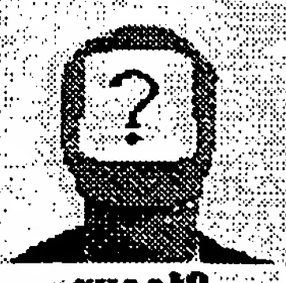

guest3


guest4

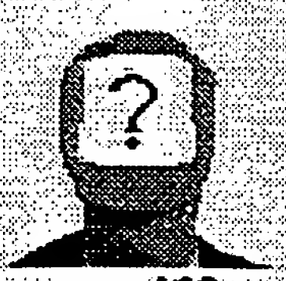

guest5

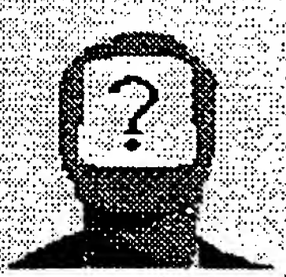

guest6

guest7


guest8

guest9


guest10


guest11

guest12

guest13

guest14

AV-Call | Mail | Share | Whiteboard | Messages | FAX | Phone

FIG 22

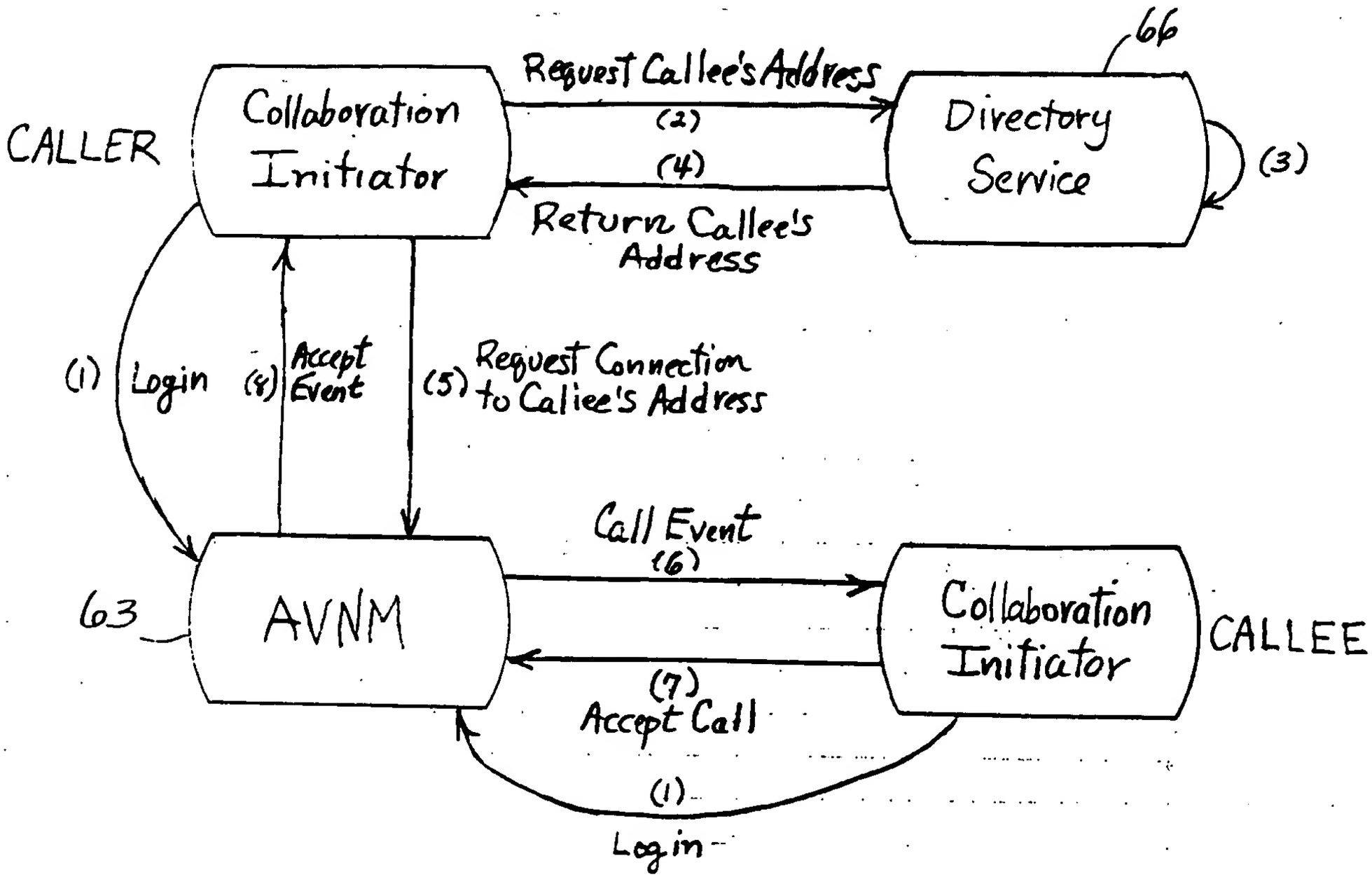

66
Request Callee's Address
(2)
CALLER
Collaboration Initiator
Directory Service
(3)
(4)
Return Callee's Address
(1) Login
(8) Accept Event
(5) Request Connection to Callee's Address
Call Event
(6)
63
AVNM
Collaboration Initiator
CALLEE
(7)
Accept Call
(1)
Login

FIG. 23

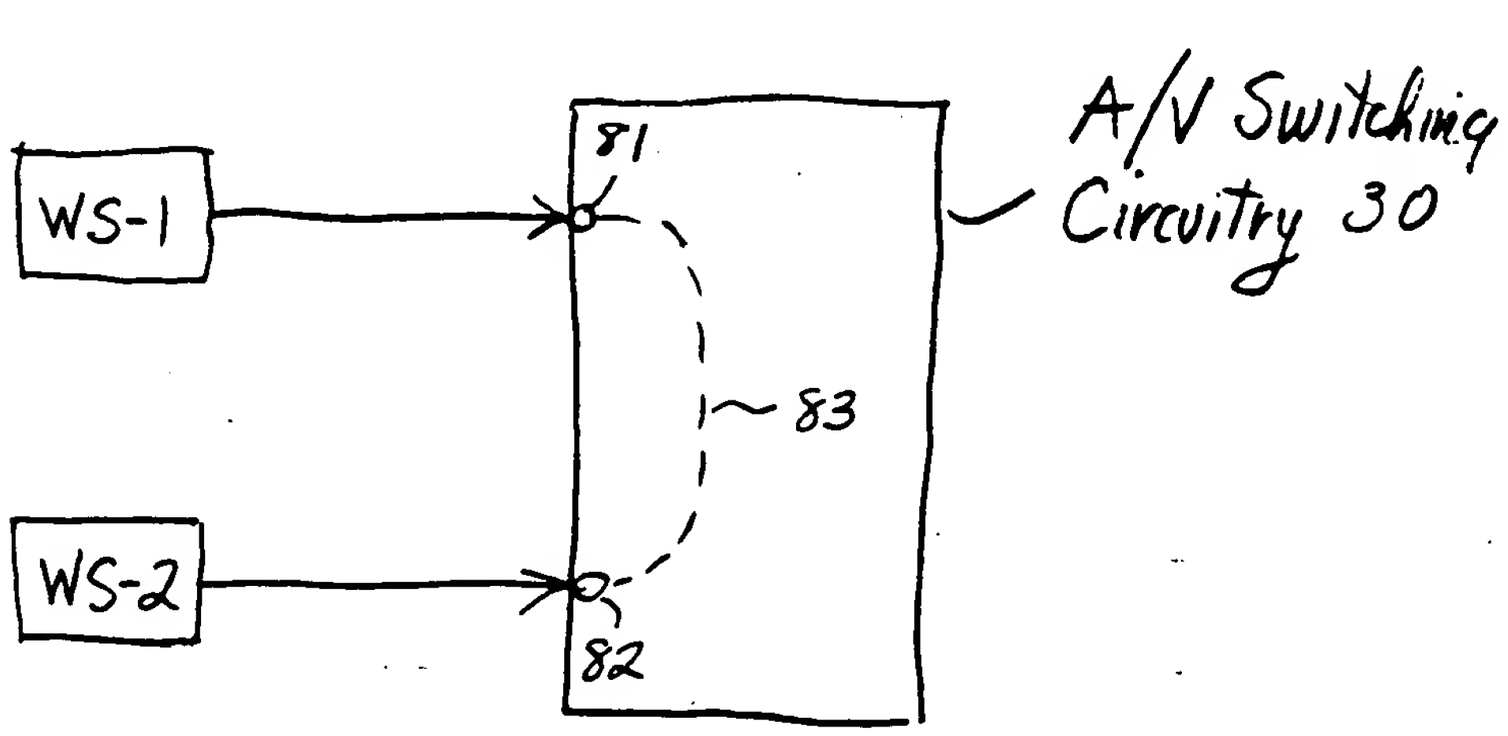

WS-1
WS-2
81
82
83
A/V Switching Circuitry 30

FIG. 24

08/131523

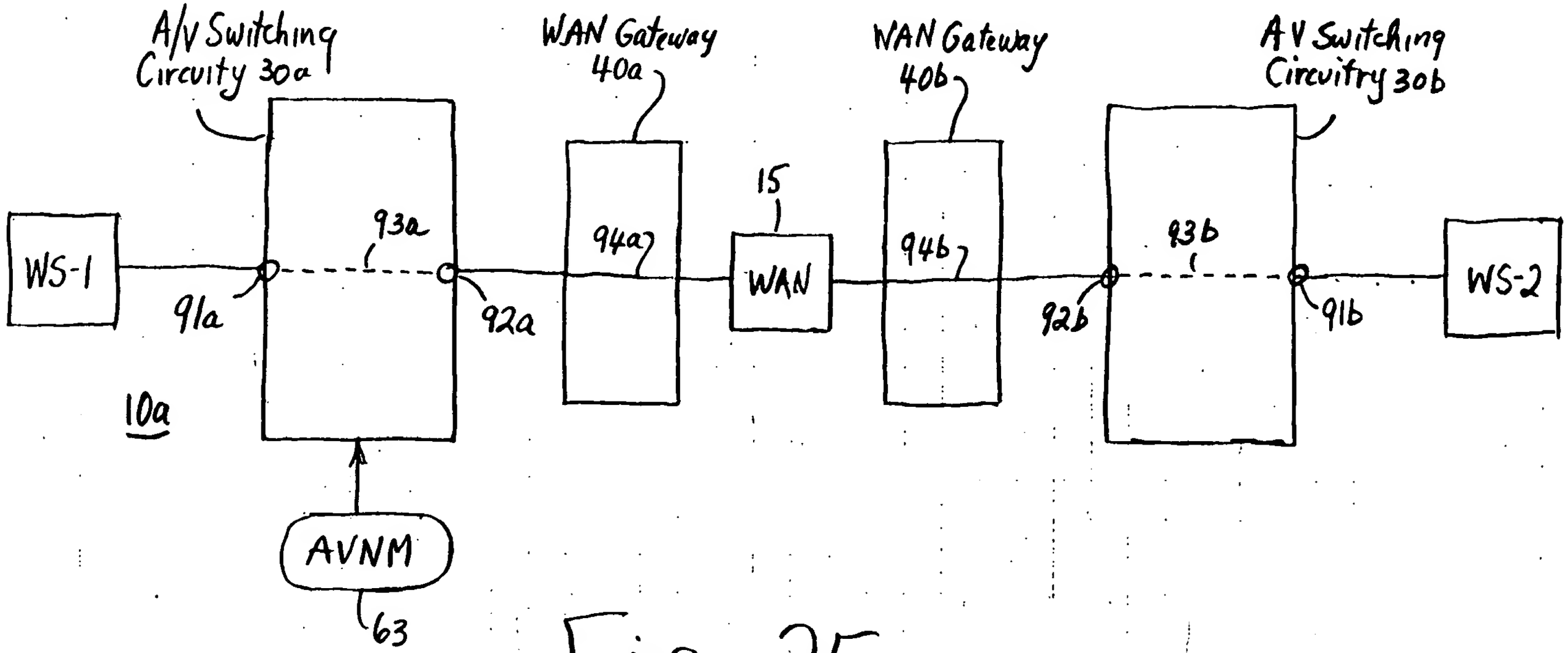


FIG. 25

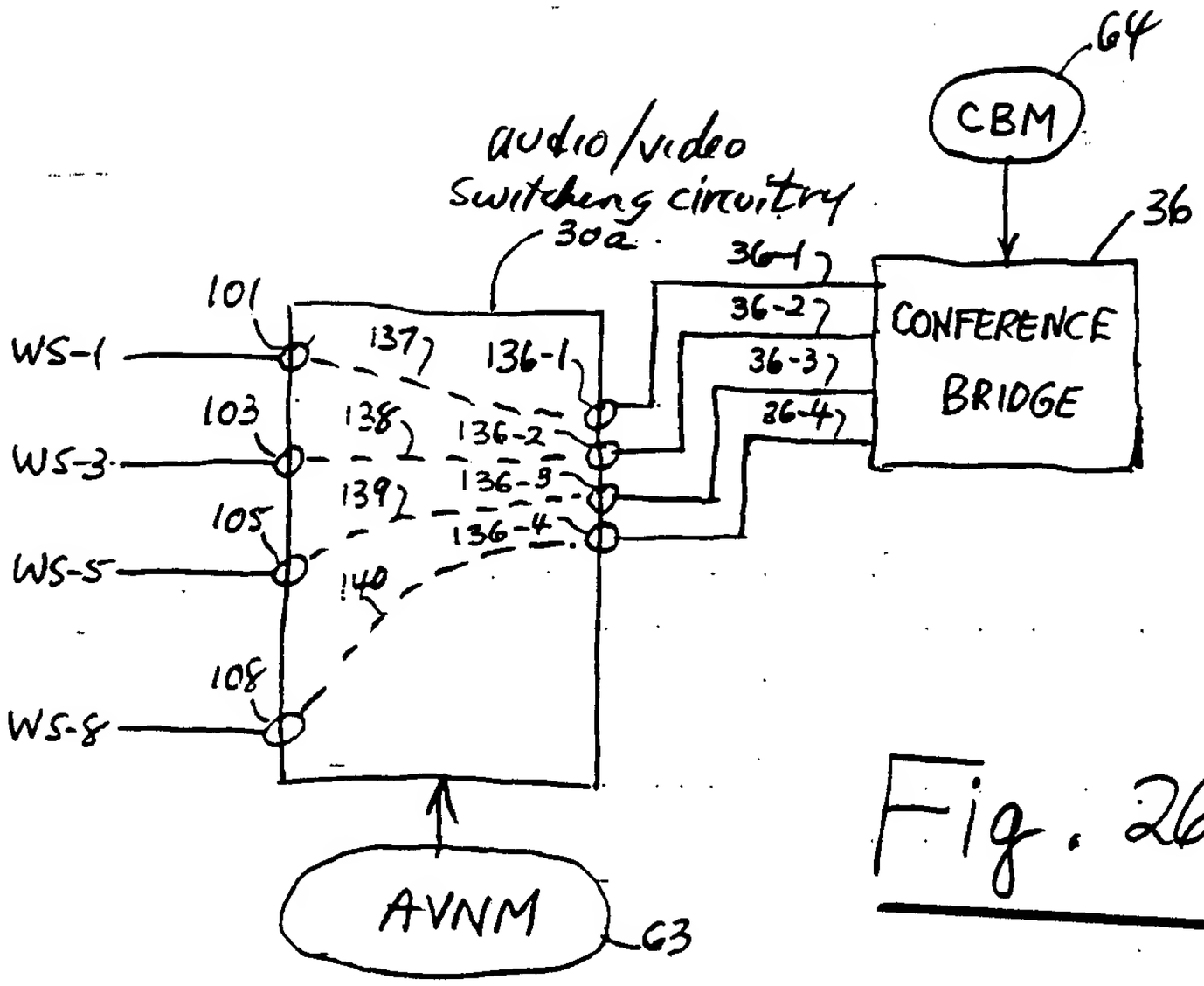

64
CBM
audio/video
switching circuitry
30a
36
36-1
36-2
36-3
36-4
CONFERENCE
BRIDGE
101
137
136-1
WS-1
103
138
136-2
WS-3
136-3
139
105
136-4
WS-5
140
108
WS-8
AVNM
63

Fig. 26

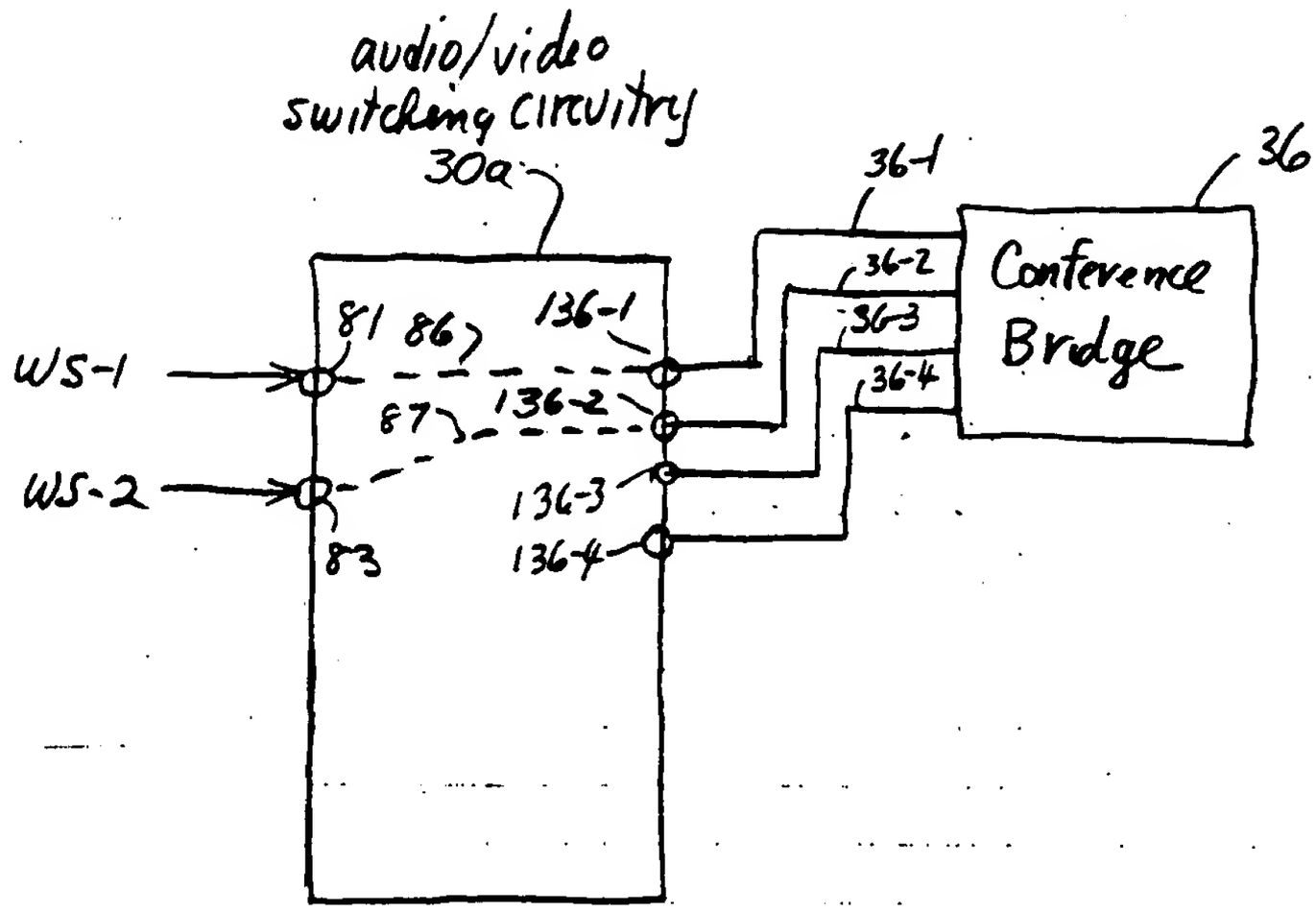

audio/video
switching circuitry
30a
36-1
36
Conference
Bridge
36-2
36-3
36-4
81
86
87
136-1
136-2
136-3
136-4
WS-1
WS-2
83

FIG. 27

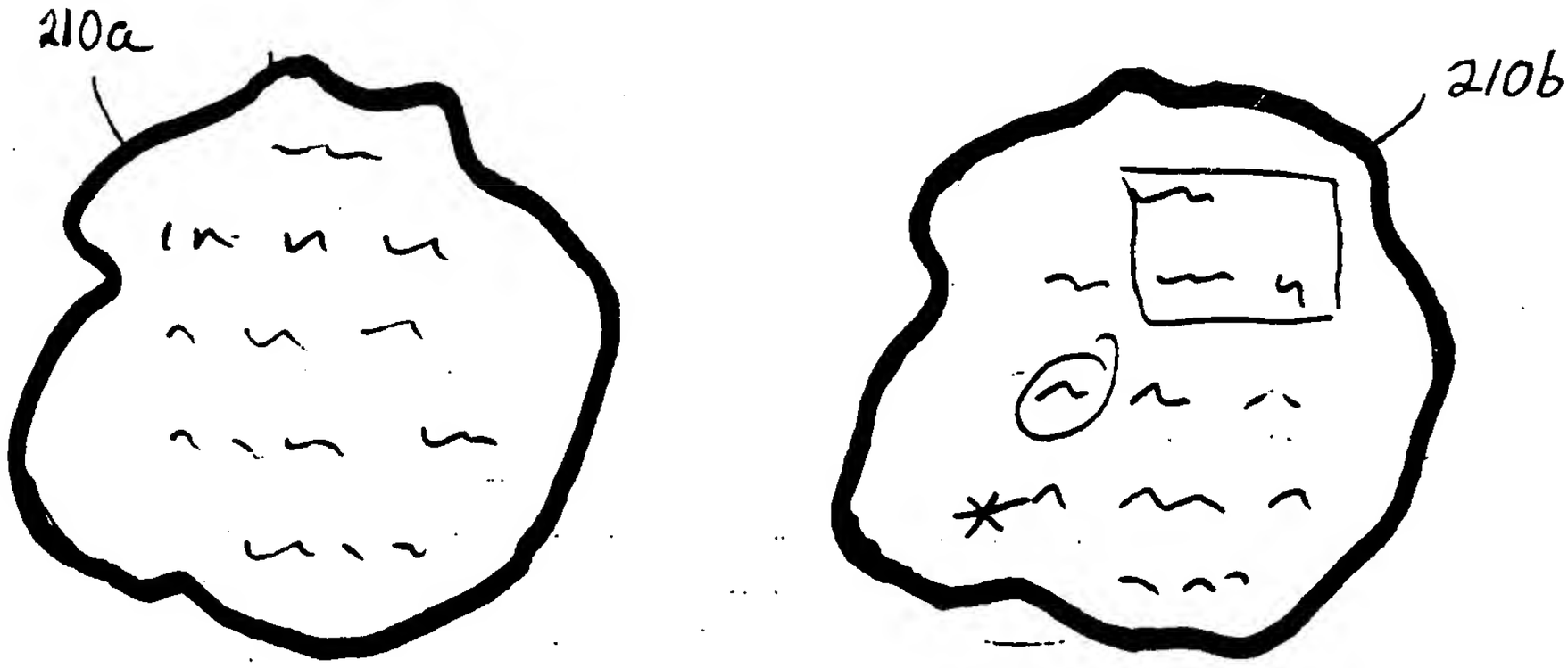


FIGURE 28

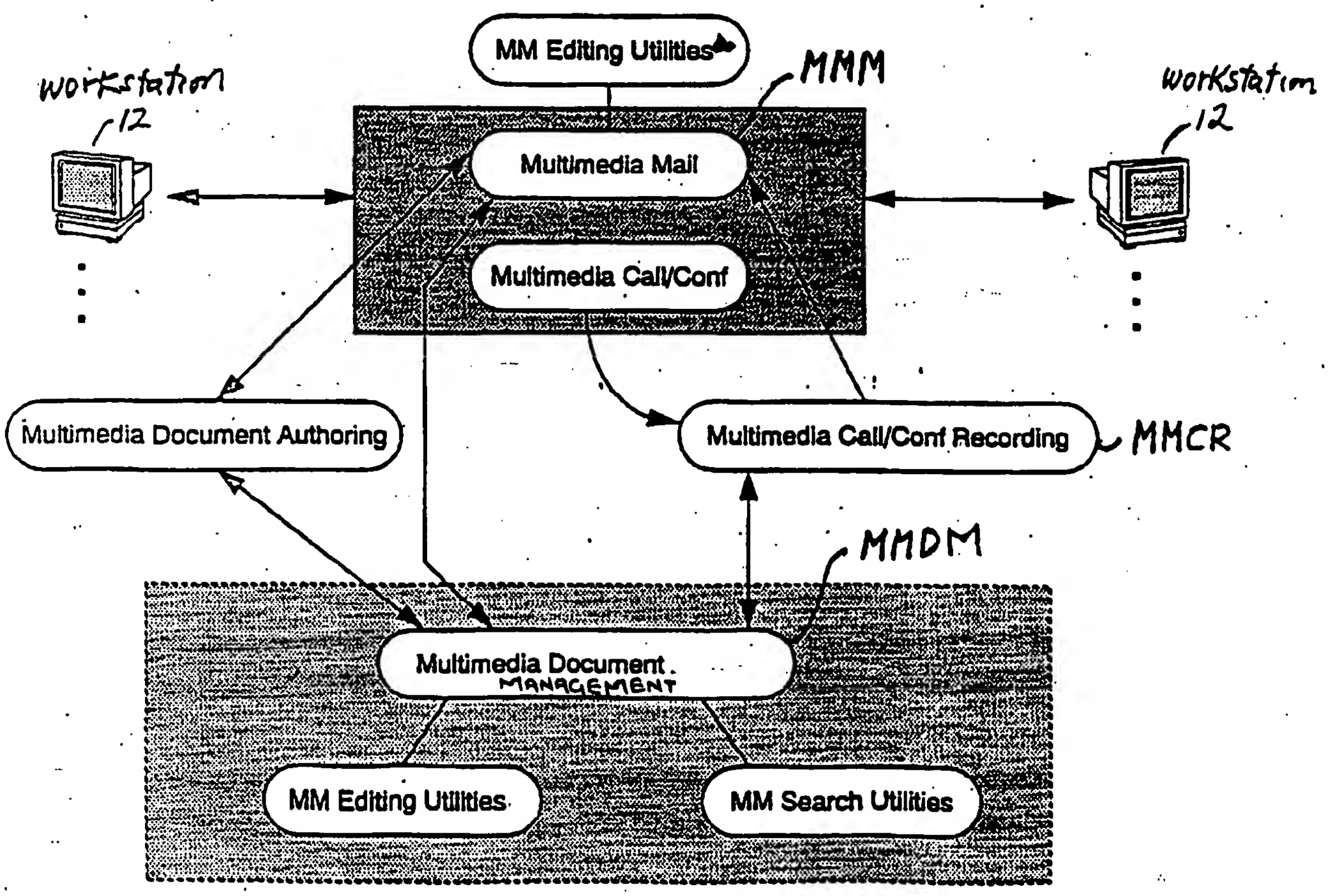


FIGURE 29

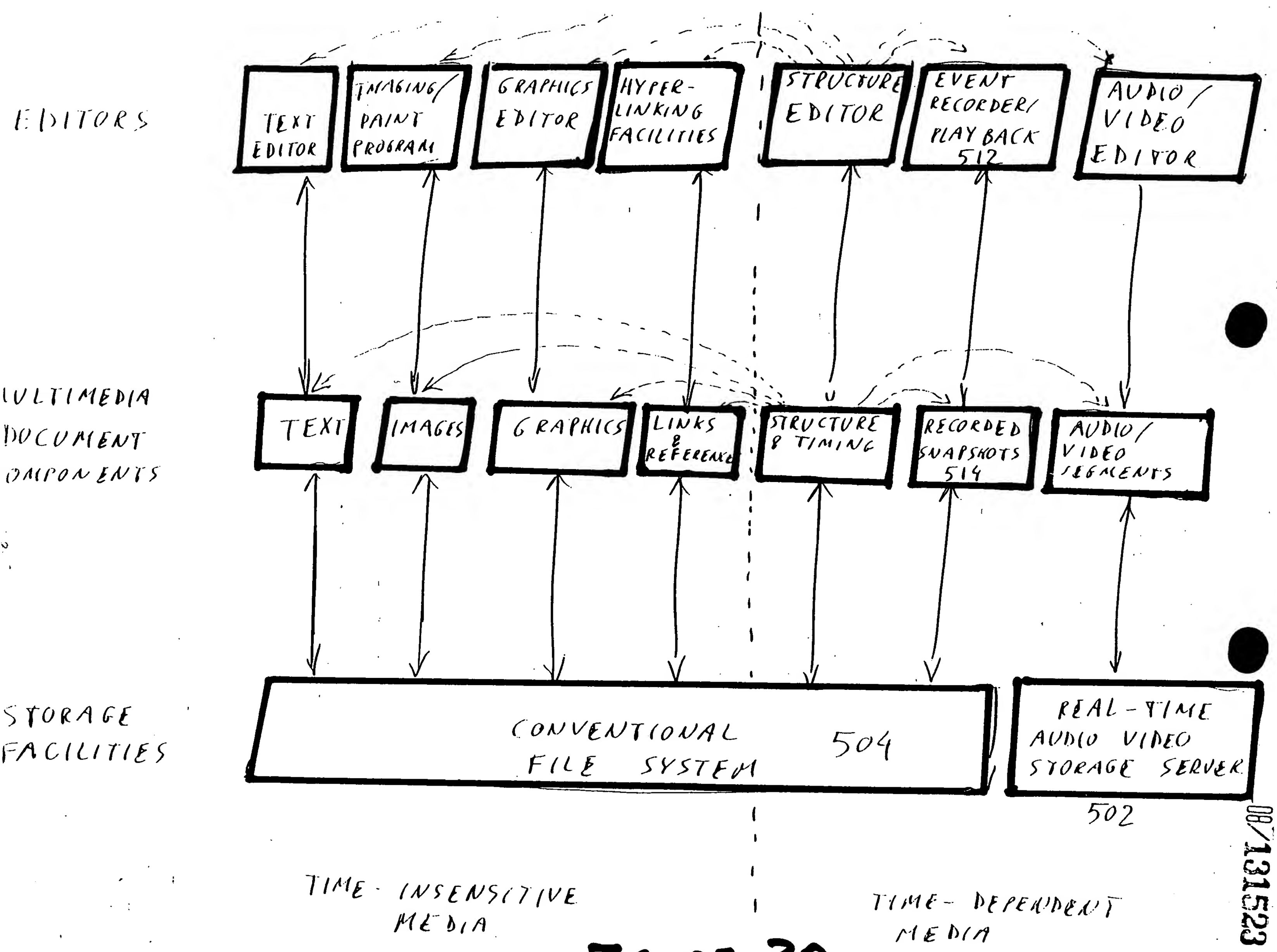


FIGURE 30

08/131523

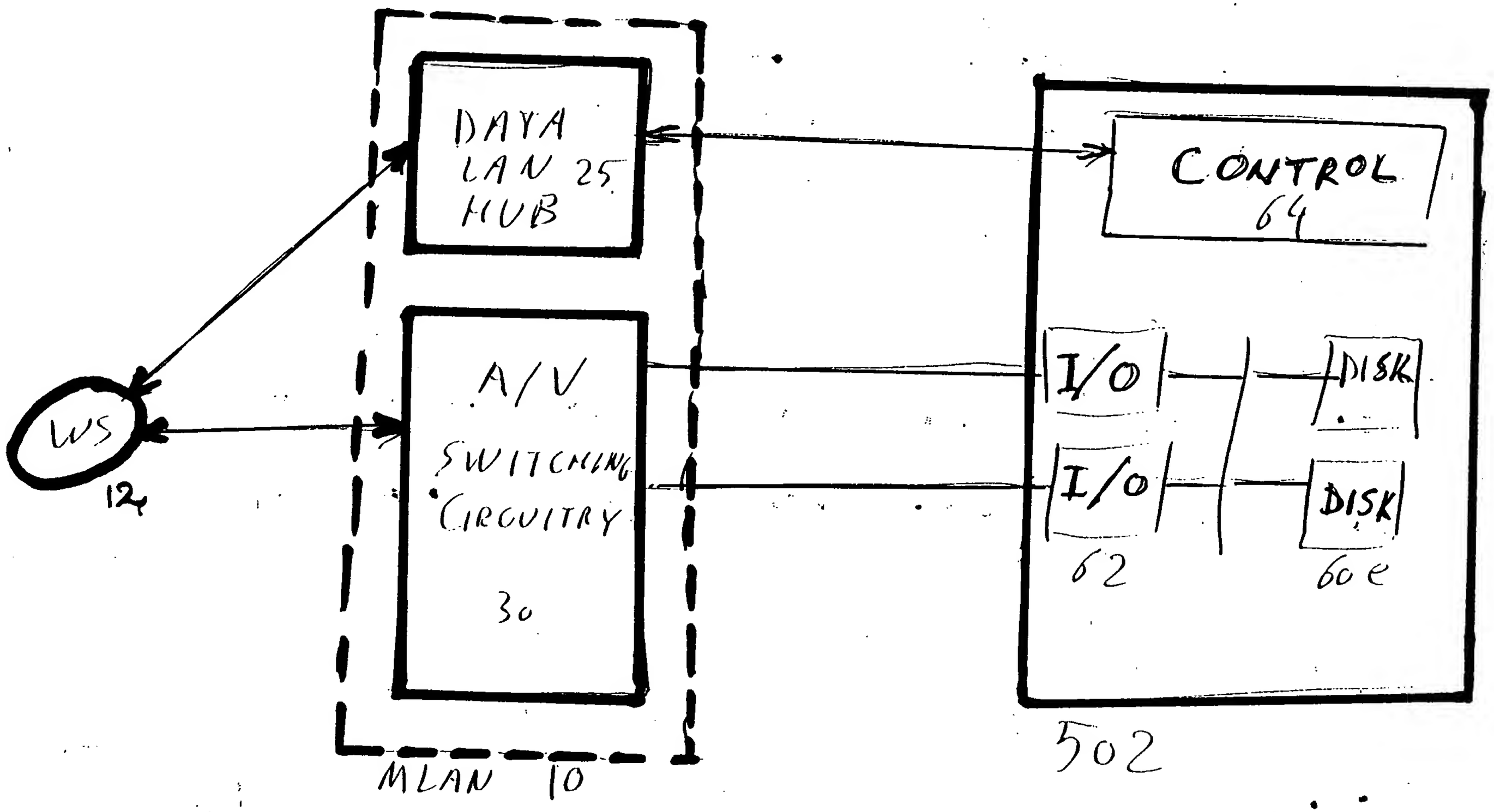


FIGURE 31A

08/131523

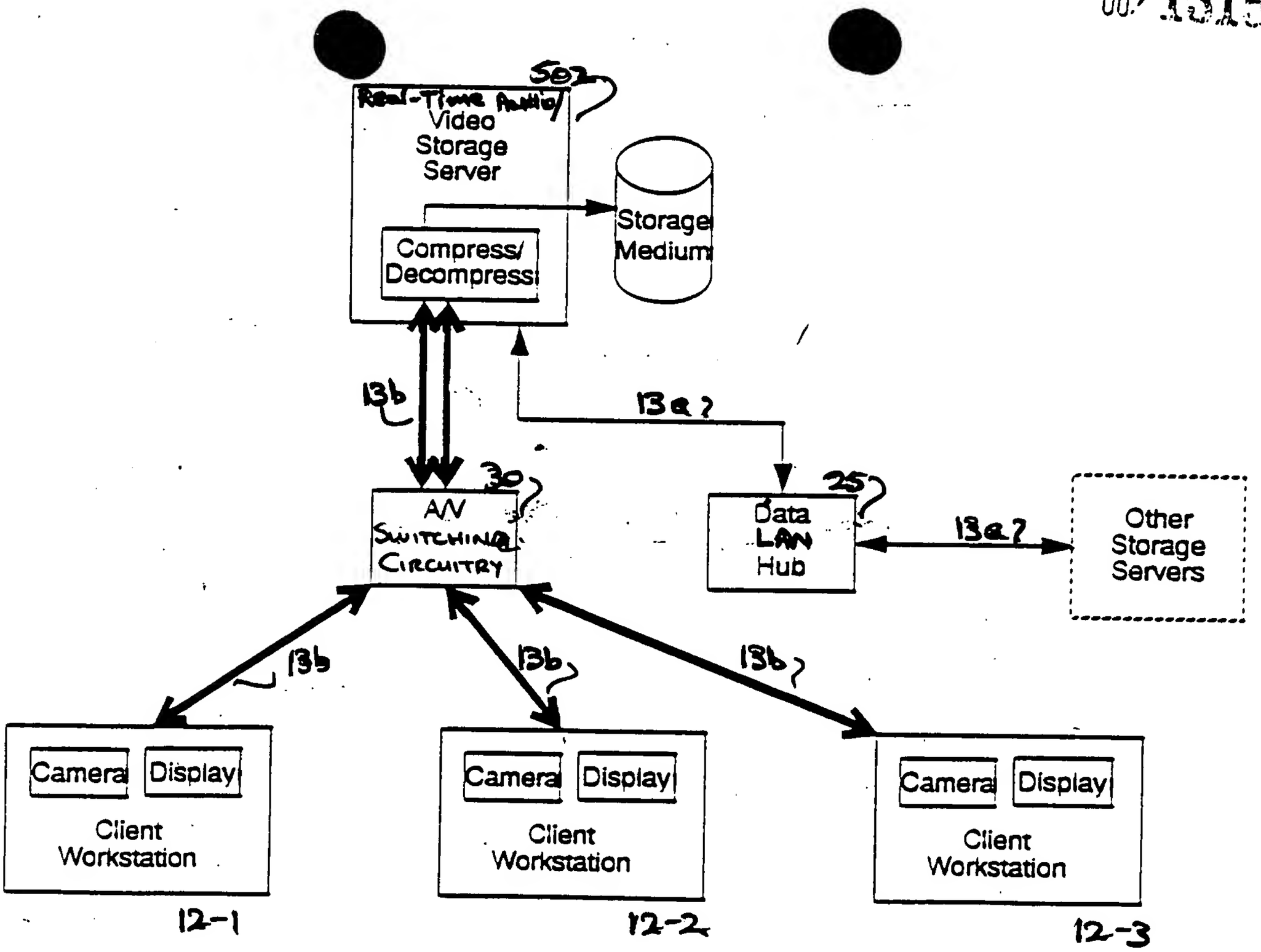


FIGURE 31B

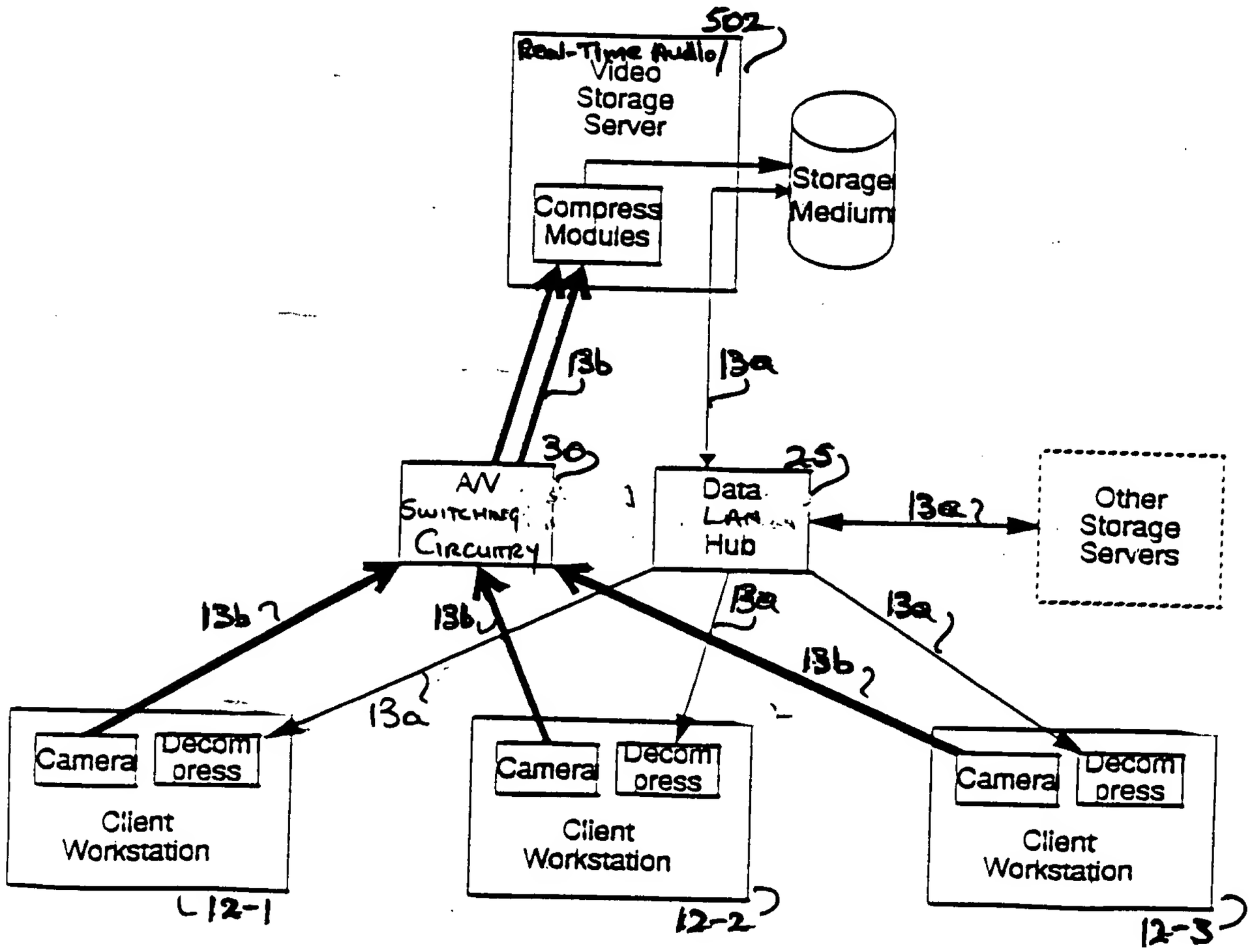


FIGURE 31C

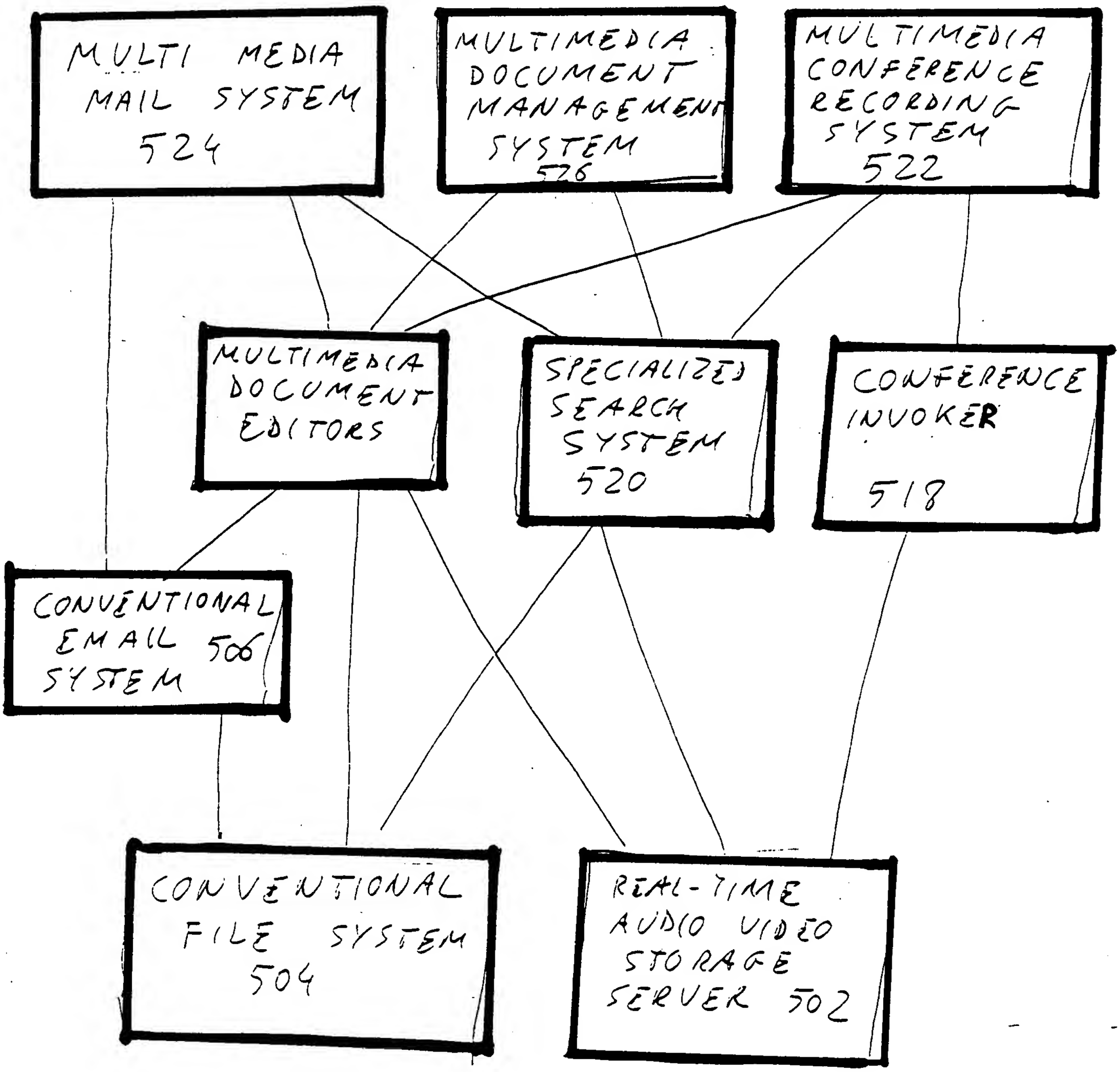

MULTI MEDIA MAIL SYSTEM 524
MULTIMEDIA DOCUMENT MANAGEMENT SYSTEM 526
MULTIMEDIA CONFERENCE RECORDING SYSTEM 522
MULTIMEDIA DOCUMENT EDITORS
SPECIALIZED SEARCH SYSTEM 520
CONFERENCE INVOKER 518
CONVENTIONAL EMAIL SYSTEM 506
CONVENTIONAL FILE SYSTEM 504
REAL-TIME AUDIO VIDEO STORAGE SERVER 502

FIGURE 31D

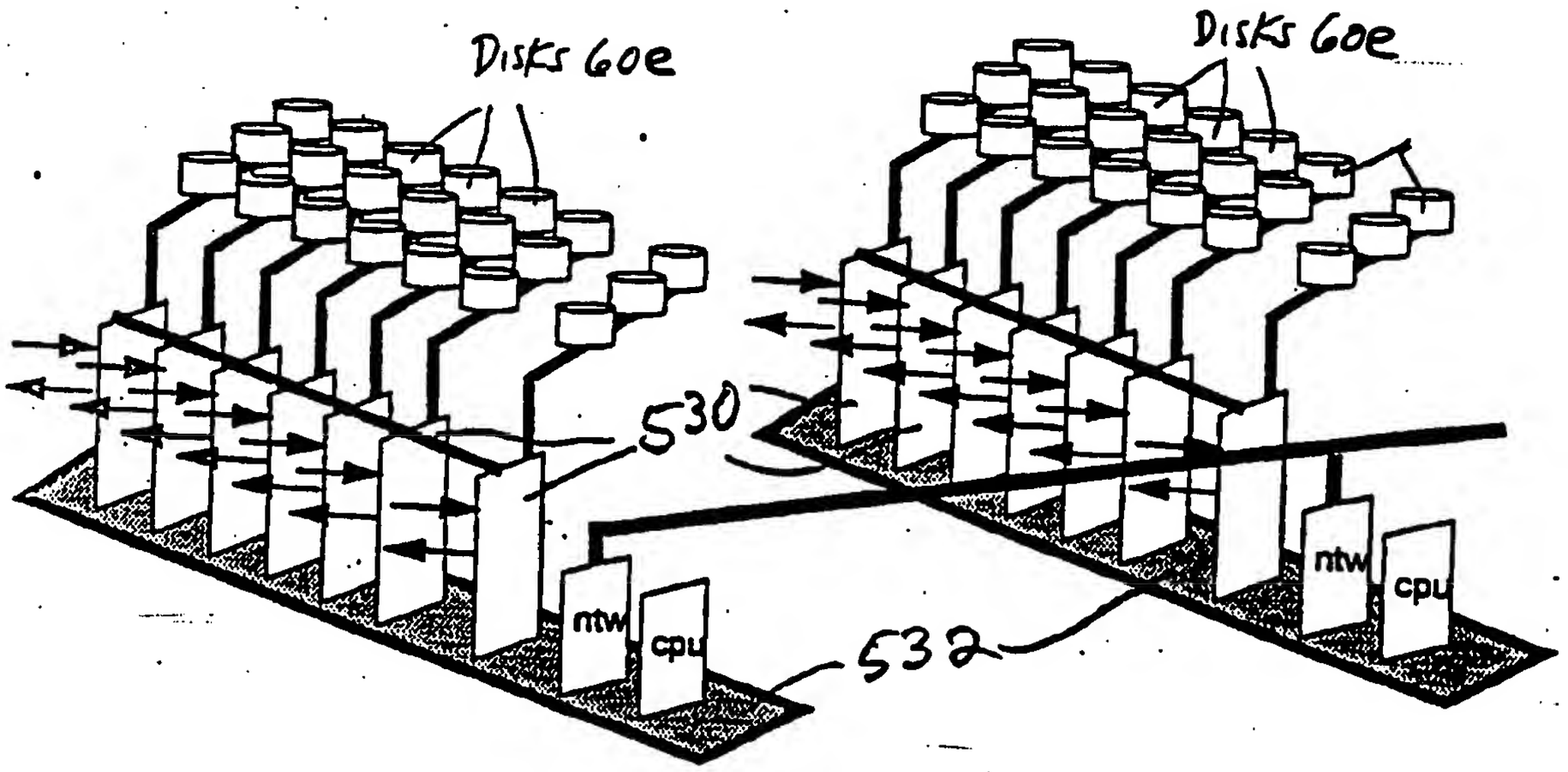


FIGURE 32

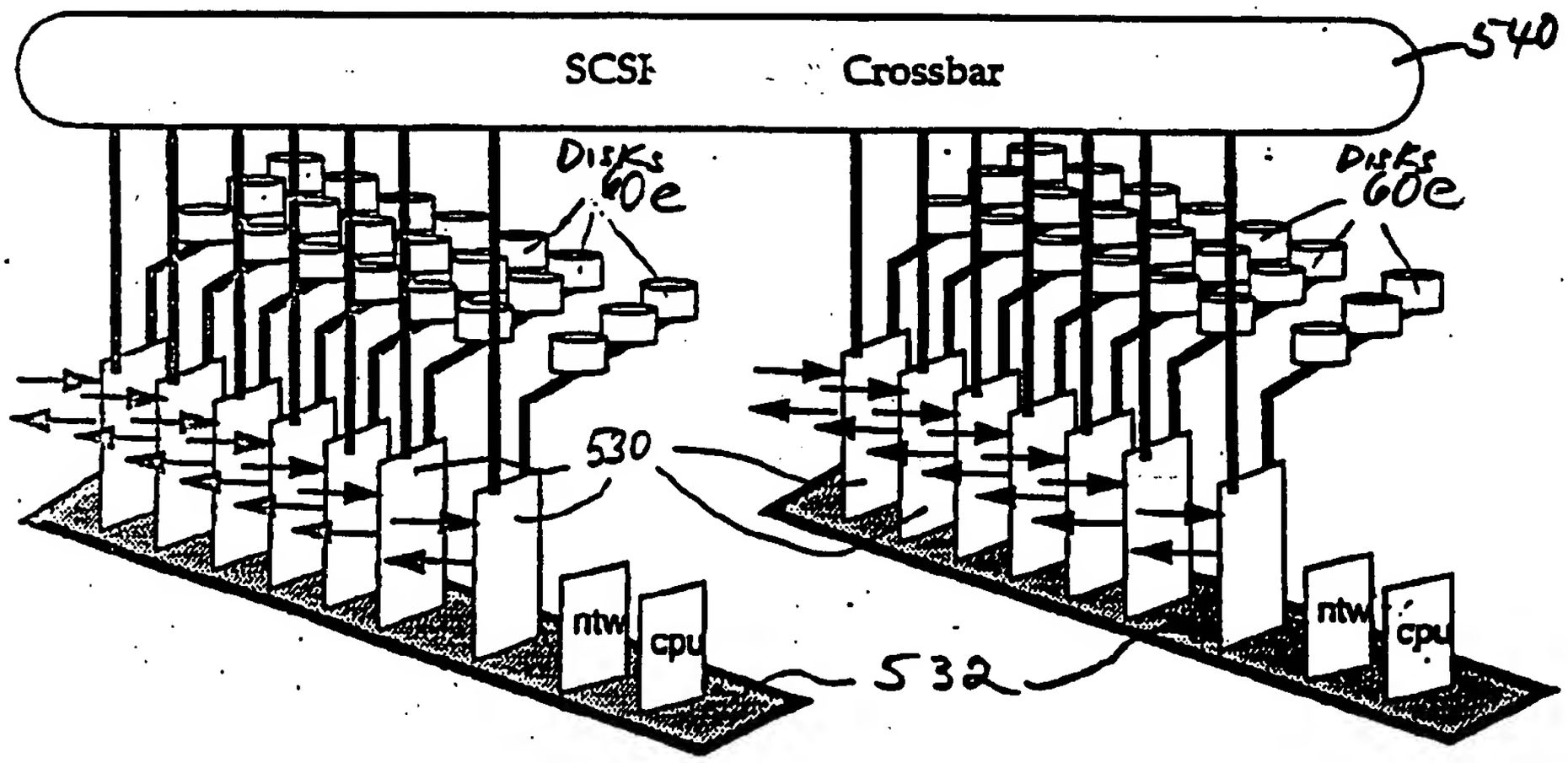


FIGURE 33

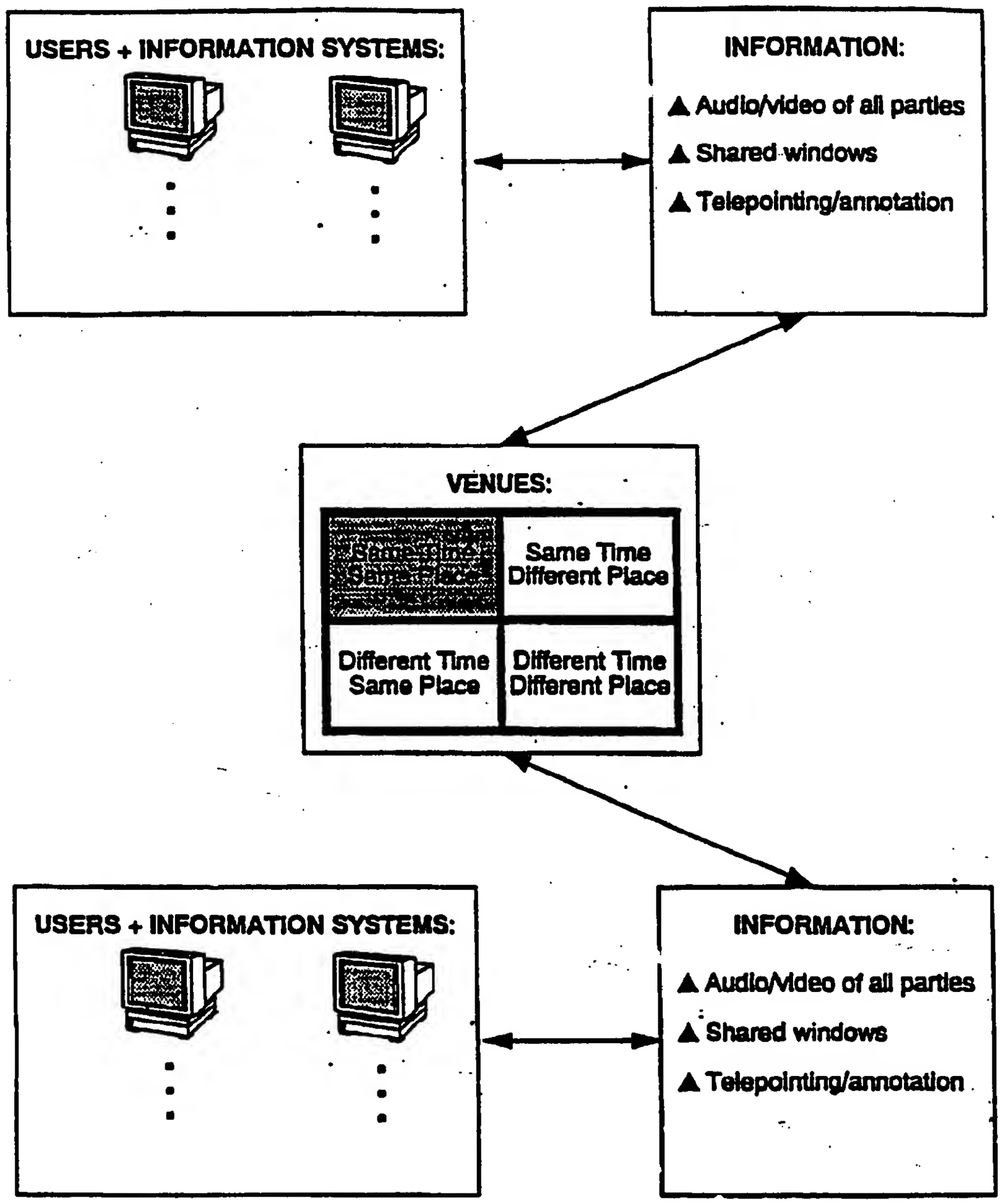

USERS + INFORMATION SYSTEMS:
INFORMATION:
▲ Audio/video of all parties
▲ Shared windows
▲ Telepointing/annotation
VENUES:
Same Time Same Place
Same Time Different Place
Different Time Same Place
Different Time Different Place
USERS + INFORMATION SYSTEMS:
INFORMATION:
▲ Audio/Video of all parties
▲ Shared windows
▲ Telepointing/annotation

FIGURE 34

Tom Griner

Edit

202

201

203

Hangup | Hold | Mute | Leave Word | Share | Whiteboard | Record

Calls on Hold:

Resume

Resume

Resume

204

Collaboration Initiator

File Edit Options Help

Griner Lauwers Lantz Ludwig Lake

Van Note Steel Kindon Venner Kennedy

Call | Add | Mail | Share | Whiteboard | Messages | Telephone

205

In Box

FIGURE 35

08/131,523

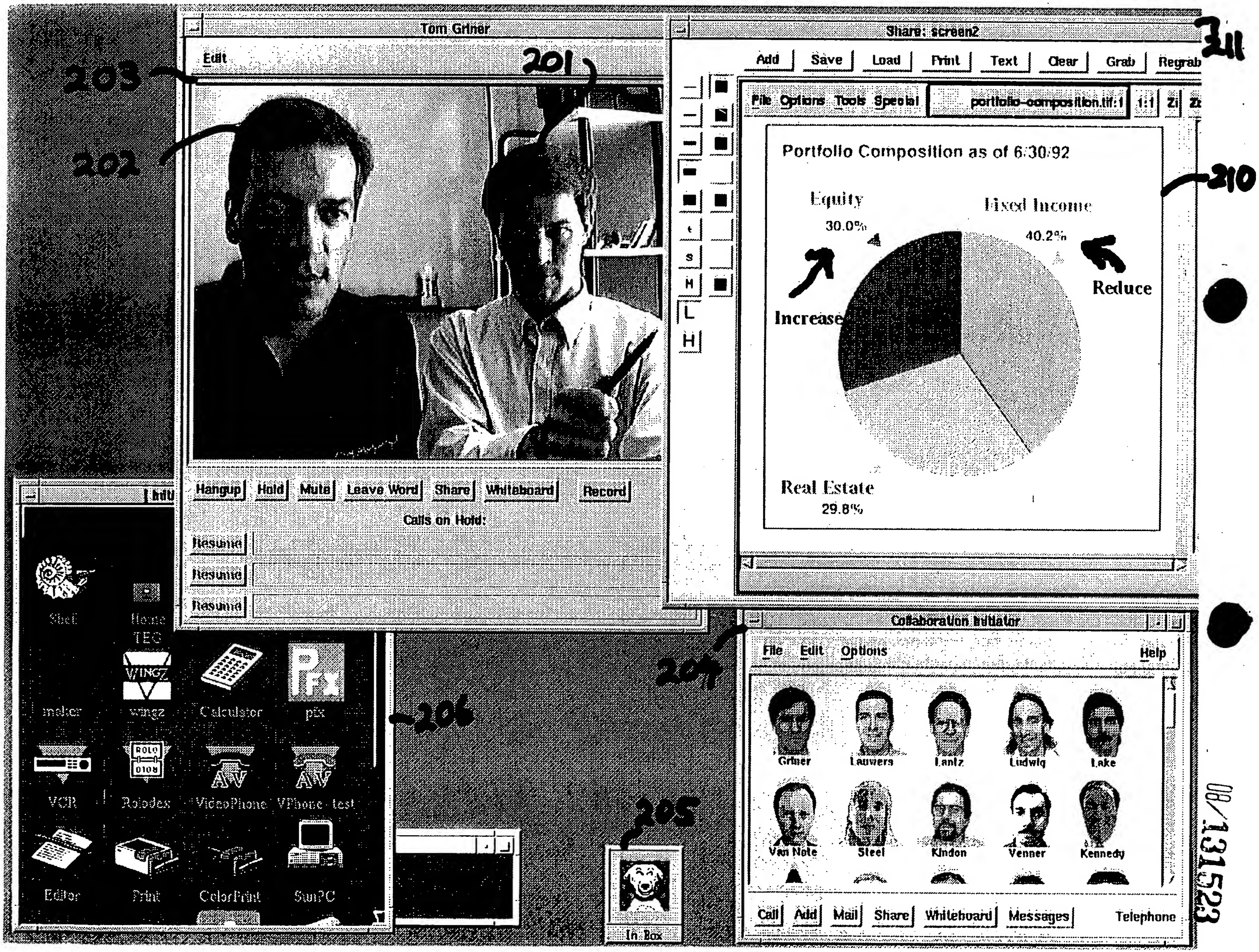


FIGURE 36

08/131523

Tom Griner

Edit

Hangup | Hold | Mute | Leave Word | Share | Whiteboard

Calls on Hold:

Resume

Resume

Resume

Share: metals-graph

Add | Save | Load | Print | Text | Clear | Grab | Regrab

TODAY

Relative Index

20
40
60

1989 1991 1993 1995

YEAR

Fixed Income

Real Estate

Equity

New Call

Call from Lester Ludvig

Accept | Refuse | Add

Collaboration Initiator

File Edit Options Help

Griner Lauwers Lantz Ludwig Lake

Van Note Steel Kindon Venner Kennedy

Call | Add | Mail | Share | Whiteboard | Messages | Telephone

Shell Home TEO

meker wingz Calculater pfs

VCR Rolodex VideoPhone VPhone-test

Editor Print ColorPrint SunPC

In Box

201 202 203 204 205 206 211 220 221 222

FIGURE 37

08/131523

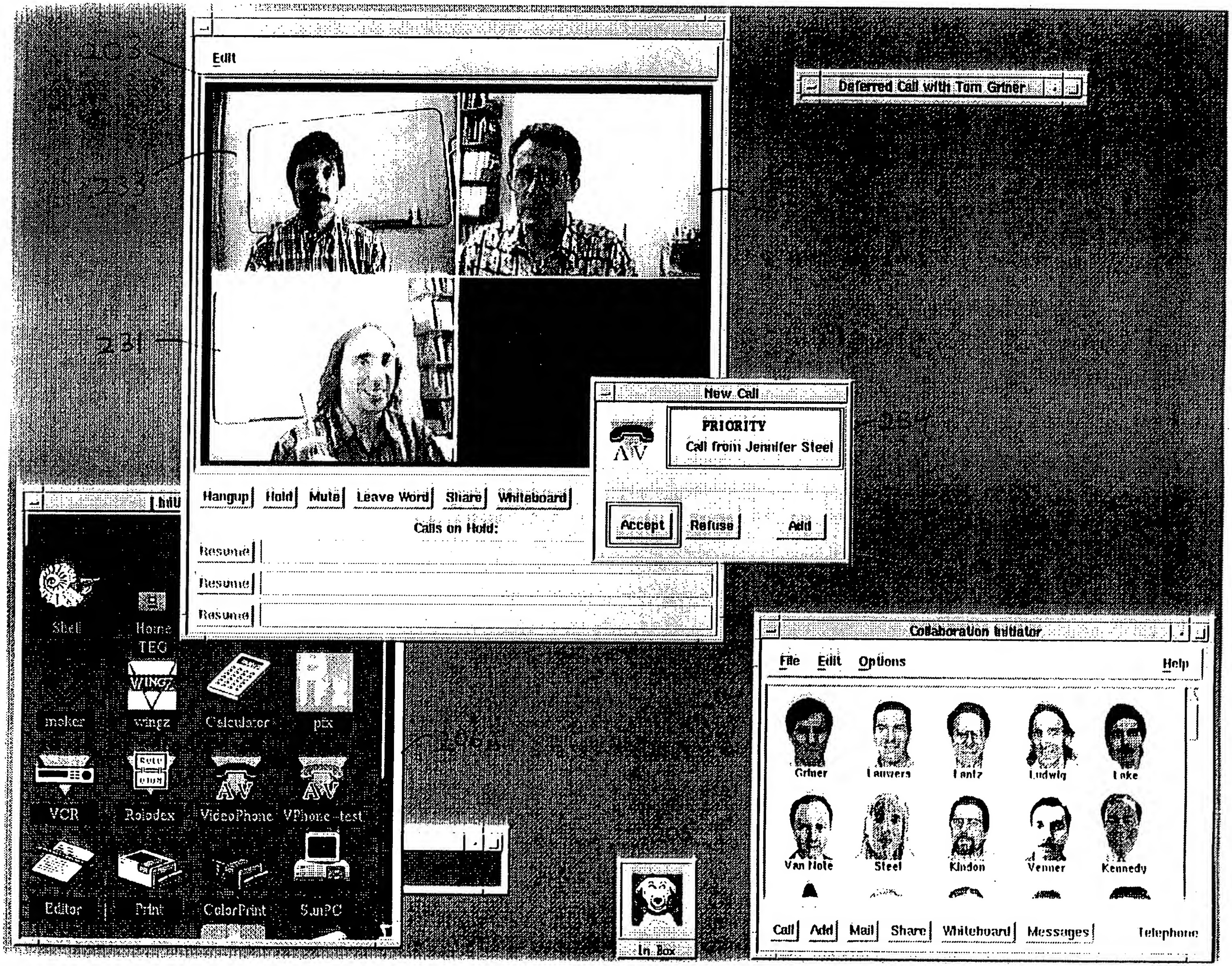


FIGURE 38

08/131523

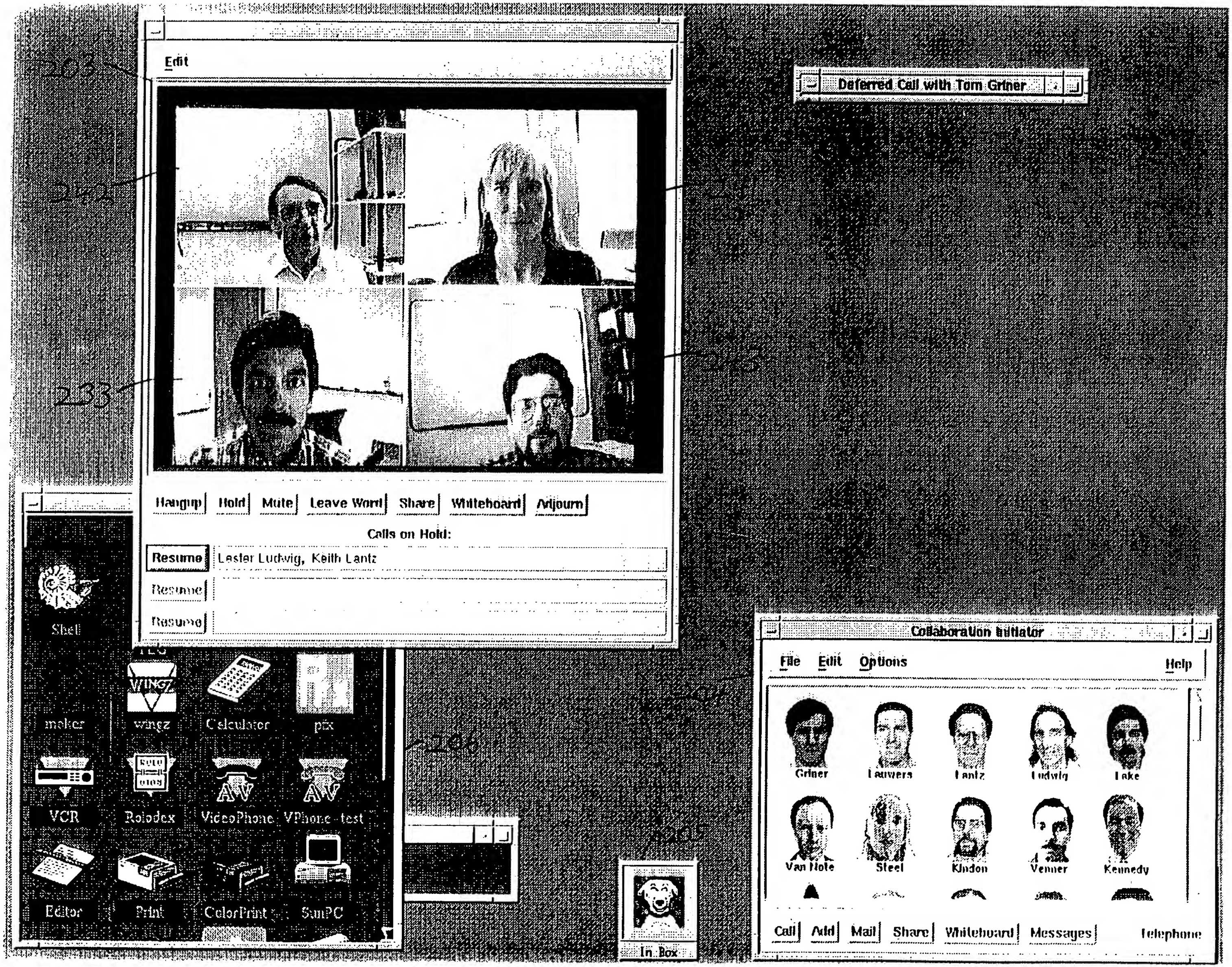


FIGURE 39

08/131523

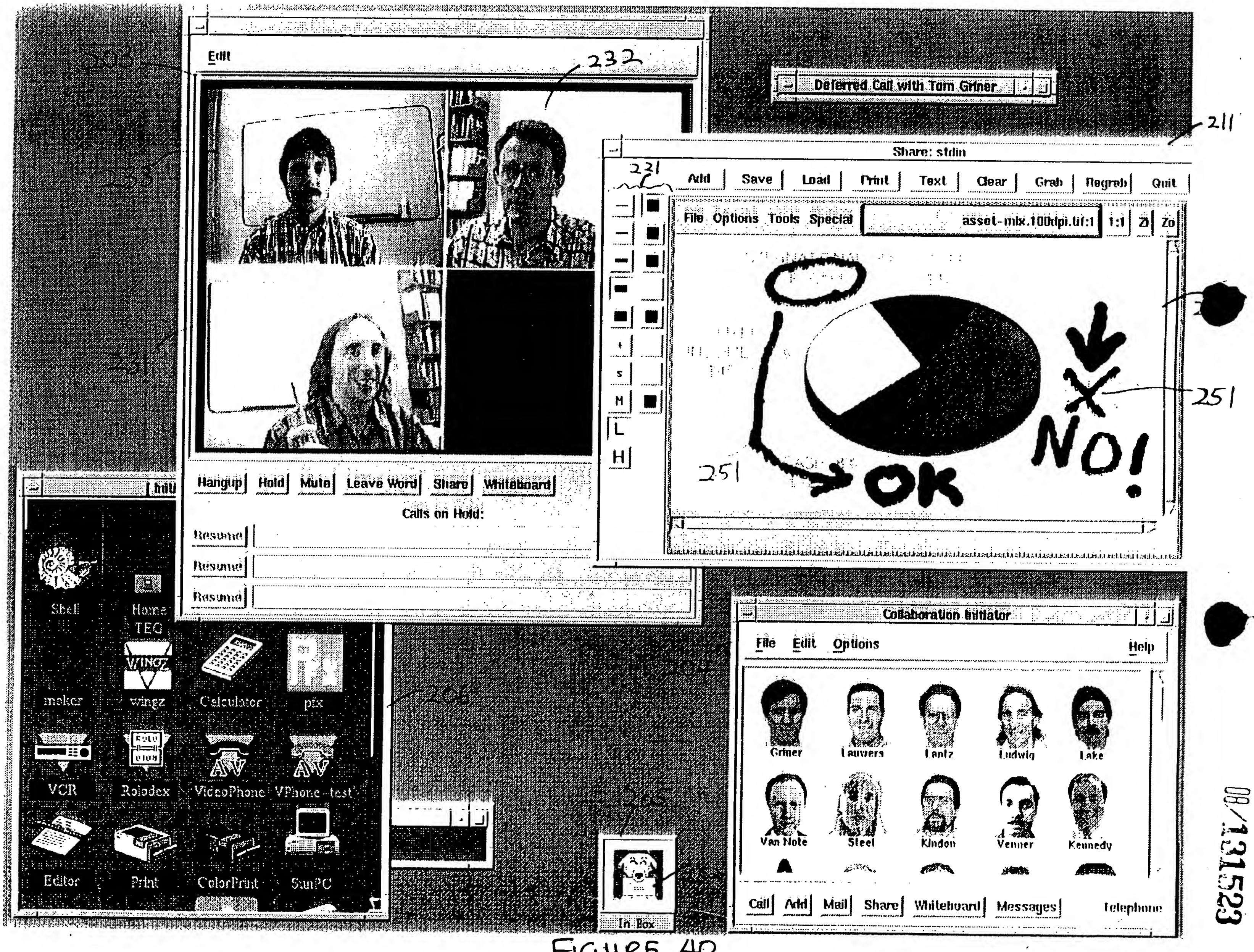


FIGURE 40

08/131523

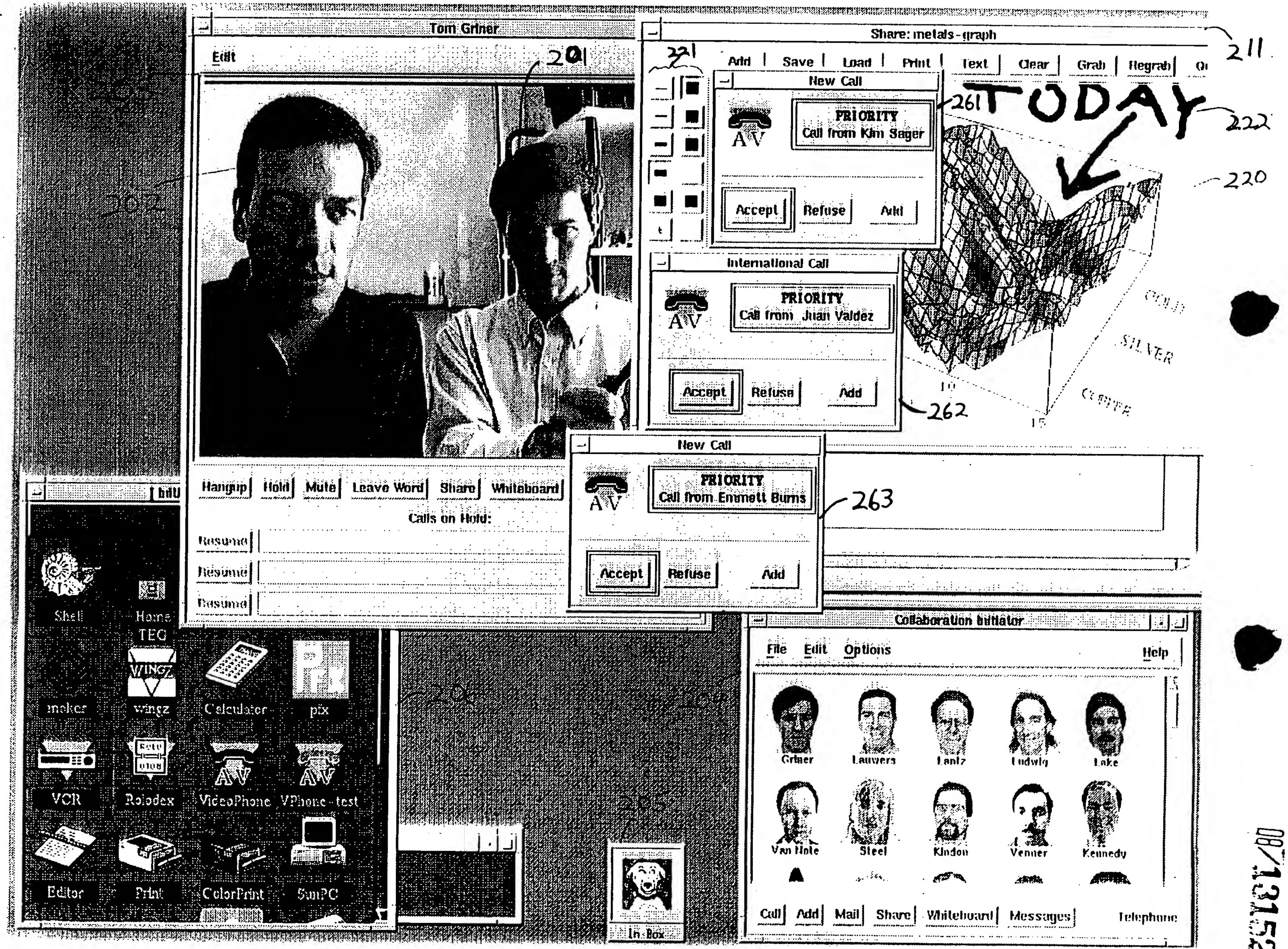


FIGURE 41

08/131523

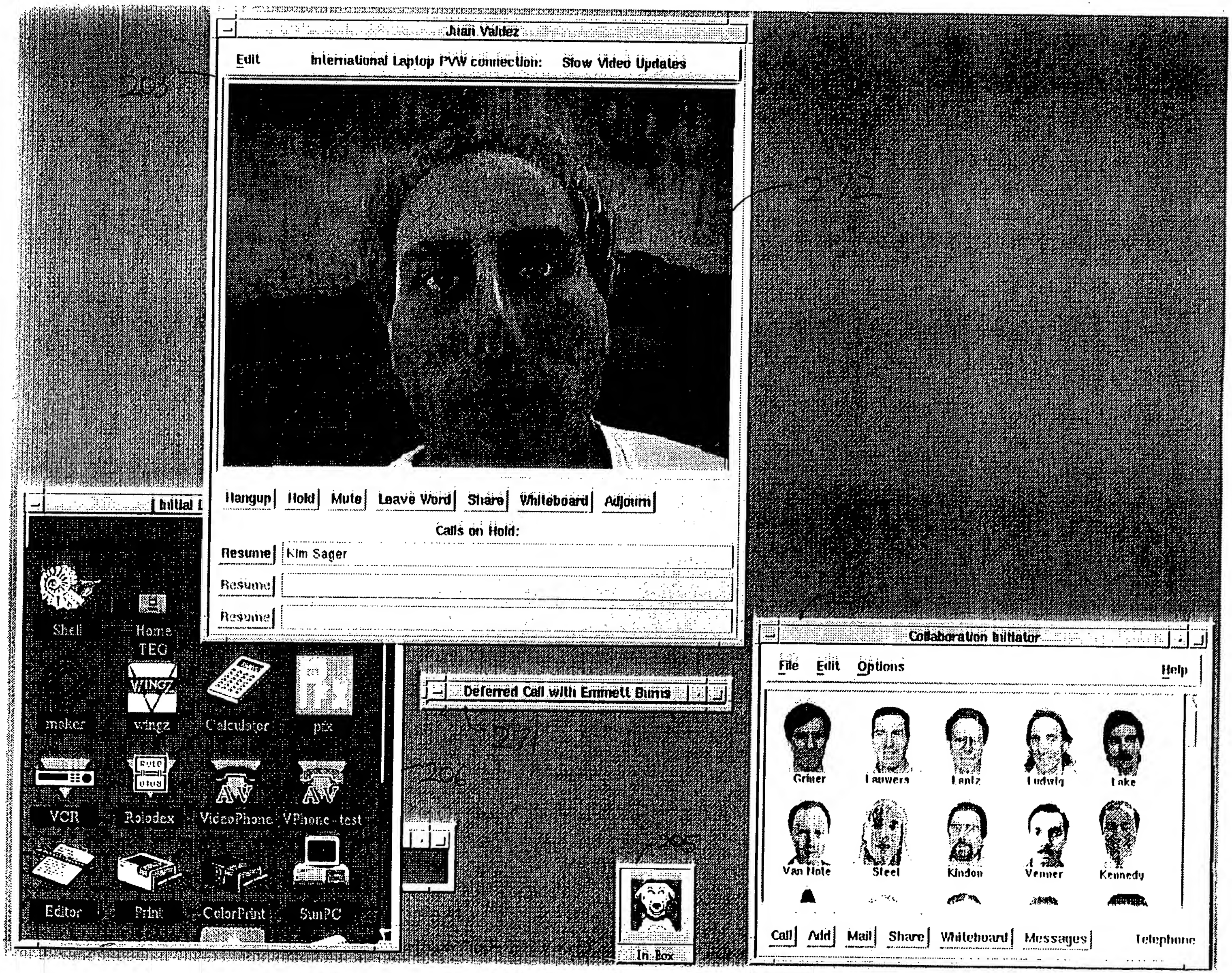


FIGURE 42

08/131523